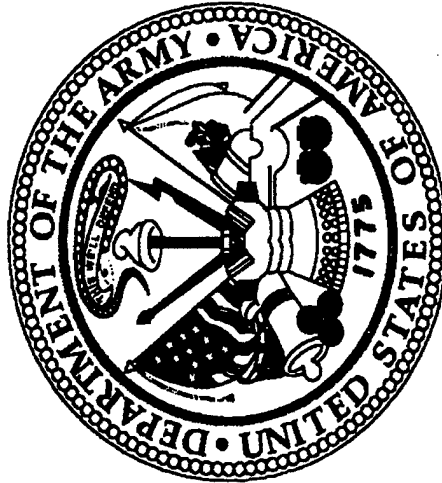


# DEPARTMENT OF THE ARMY

## Procurement Programs



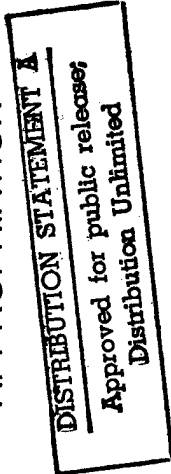
DTIC QUALITY INSPECTED 2

Committee Staff Procurement Backup Book  
FY 1999 Budget Estimates

**OTHER PROCUREMENT, ARMY  
ACTIVITY 2, COMMUNICATIONS AND ELECTRONICS**

February 1998

APPROPRIATION



19980305 013

## Index for OTHER PROCUREMENT, ARMY - Activity 2

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25	P1 EXHIBIT	BA0510	51700103.99P	P1-1
26	P1M EXHIBIT	BB5777	52930123.99P	P1M -1
27	COMBAT IDENTIFICATION PROGRAM	BB8500	52948148.99P	1
28	JCSE EQUIPMENT (USREDCOM)	BA9350	59810123.99P	7
29	DEFENSE SATELLITE COMMUNICATIONS SYSTEM (SPACE)	K77200	59856123.99P	8
30	SHF TERM	K47800	59894123.99P	42
31	SAT TERM, EMUT (SPACE)	BC4001	59909123.99P	47
32	NAVSTAR GLOBAL POSITIONING SYSTEM (SPACE)	BC4002	59910123.99P	53
33	GROUND COMMAND POST	BC4003	59911123.99P	58
34	SMART-T (SPACE)	BC4120	59915161.99P	60
35	SCAMP (SPACE)	BB8417	59920123.99P	67
36	GLOBAL BRDCST SVC - GBS	BB1611	51666123.99P	73
37	MOD OF IN-SVC EQUIP (TAC SAT)	BU4000	57858148.99P	78
38	MSE MOD IN SERVICE	BA8250	58148123.99P	82
39	SOUTHCOM HQ RELOCATION	BU1400	56316123.99P	86
40	ARMY GLOBAL CMD & CONTROL SYS (AGCCS)	BB1610	57580123.99P	90
41	ARMY DATA DISTRIBUTION SYSTEM (ADDS)	BW0006	57638123.99P	95
42	MOBILE SUBSCRIBER EQUIP (MSE)	BA1010	58266123.99P	102
43	SINGARS FAMILY	BB1600	58324123.99P	105
44	JOINT TACTICAL AREA COMMS SYS	BA1205	58400123.99P	119
45	ACUS MOD PROGRAM (WIN-T/T)	BA5210	58548112.99P	125
46	TAC RADIO	BA5300	58560131.99P	130
47	C-E CONTINGENCY/FIELDING EQUIP	B03200	58960123.99P	135
48	SOLDIER ENHANCEMENT PROGRAM COMM/ELECTRONICS	MA8046	59890118.99P	137
49	COMBAT SURVIVOR EVADER LOCATOR (CSEL)	BK5284	50250142.99P	140
50	MEDICAL COMM FOR CBT CASUALTY CARE (MC4)	BA1201	50120123.99P	145
51	CI AUTOMATION ARCHITECTURE			149
53	TSEC - ARMY KEY MGT SYS (AKMS)			150

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54	INFORMATION SYSTEM SECURITY PROGRAM - ISSP	TA0600	50122136.99P	156
55	TERRESTRIAL TRANSMISSION	BU1900	59400148.99P	169
56	BASE SUPPORT COMMUNICATIONS	BU4160	59716150.99P	179
57	ARMY DISN ROUTER	BU0300	59782148.99P	183
58	ELECTROMAG COMP PROG (EMCP)	BD3100	59786135.99P	186
59	WW TECH CON IMP PROG (WWTCIP)	BU3610	59850148.99P	190
60	INFORMATION SYSTEMS	BB8650	59200148.99P	194
61	DEFENSE MESSAGE SYSTEM (DMS)	BU3770	59632118.99P	210
62	LOCAL AREA NETWORK (LAN)	BU4165	59704148.99P	213
63	PENTAGON INFORMATION MGT AND TELECOM	BQ0100	59846148.99P	217
64	FOREIGN COUNTERINTELLIGENCE PROG (FCI)	BK5282	59398142.99P	223
65	GENERAL DEFENSE INTELL PROG (GDIP)	BD3900	59816142.99P	224
66	ITEMS LESS THAN \$2.0M (INTEL SPT) - TIARA	BL5278	59996106.99P	225
67	ALL SOURCE ANALYSIS SYS (ASAS) (TIARA)	K28801	59340123.99P	226
68	JTT/CIBS-M (TIARA)	V29600	59522103.99P	230
69	IEW - GND BASE COMMON SENSORS (TIARA)	BZ7326	59544103.99P	236
70	JOINT STARS (ARMY) (TIARA)	BA1080	59574103.99P	243
71	NATO-AGS	BA1082	59577103.99P	250
72	INTEGRATED BROADCAST TERMINAL MODS (TIARA)	BA1081	59590103.99P	252
73	DIGITAL TOPOGRAPHIC SPT SYS (DTSS) (TIARA)	KA2550	59607123.99P	262
75	TACTICAL EXPLOITATION OF NATIONAL CAPABILITY	BZ7315	59678102.99P	266
76	JOINT TACTICAL GROUND STATION MODS	BZ8420	59695121.99P	269
77	TROJAN (TIARA)	BA0326	59704104.99P	277
78	MOD OF IN-SVC EQUIP (INTEL SPT) (TIARA)	BZ9750	59912103.99P	286
79	CI HUMINT AUTOMATED TOOL SET (CHATS) (TIARA)	BK5275	59925123.99P	299
80	ITEMS LESS THAN \$2.0M (TIARA)	BK5278	59990106.99P	302
81	SHORTSTOP	VA8000	58490148.99P	303
82	COUNTERINTELLIGENCE/SECURITY COUNTERMEASURES	BL5283	59996142.99P	308

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83	SENTINEL (FAAD GBS)	WK5053	50120103.99P	309
84	TARGET LOCATION OBSERVATION SYSTEM (TLOS)	K38400	50130103.99P	315
85	NIGHT VISION DEVICES	KA3500	50140103.99P	321
86	LWT VIDEO RECON SYSTEM (LWVRS)	K30800	50151103.99P	344
87	NIGHT VISION, THERMAL WPN SIGHT	K22900	50152103.99P	350
88	ARTILLERY ACCURACY EQUIP	AD3200	50178100.99P	356
89	MOD OF IN-SVC EQUIP (TAC SURV)	BZ7325	50224148.99P	370
90	COMPUTER BALLISTICS; XM-30	K99200	55726119.99P	380
91	INTEGRATED MET SYS SENSORS (IMETS) - TIARA	BW0021	58690123.99P	385
92	TACTICAL OPERATIONS CENTERS	BZ9865	59040123.99P	388
93	ADV FIELD ARTILLERY TACT DATA SYS (AFATDS)	B28600	59050123.99P	391
94	FIRE SUPPORT ADA CONVERSION	B78400	59100123.99P	394
95	CMBT SVC SUPT CONTROL SYS (CSSCS)	W34600	59142123.99P	397
96	FAAD C2	AD5050	59262123.99P	400
97	FORWARD ENTRY DEVICE (FED)	BZ9851	59322123.99P	403
98	STRIKER-COMMAND AND CONTROL SYSTEM	B78500	59330141.99P	406
99	LIFE CYCLE SOFTWARE SUPPORT (LCSS)	BD3955	59442126.99P	410
100	LOGTECH	BZ8889	59502118.99P	415
101	TC AIMS II	BZ8900	59510118.99P	418
102	GUN LAYING AND POS SYS (GLPS)	A30000	59572100.99P	421
103	ISYSCON EQUIPMENT	BX0007	59672123.99P	427
104	MANEUVER CONTROL SYSTEM (MCS)	BA9320	59742123.99P	433
105	STAMIS TACTICAL COMPUTERS (STACOMP)	W00800	59922118.99P	436
106	STANDARD INTEGRATED CMD POST SYSTEM	BZ9962	59962123.99P	441
107	ARMY TRAINING XX1 MODERNIZATION	BE4169	53001118.99P	449
108	AUTOMATED DATA PROCESSING EQUIP	BD3000	53002150.99P	454
109	RESERVE COMPONENT AUTOMATION SYS (RCAS)	BE4167	59956108.99P	503
110	AFRTS	BZ8480	59762150.99P	506



## Index for OTHER PROCUREMENT, ARMY - Activity 2

Blin	Nomenclature	SSN	Filename	Page Number
111	ITEMS LESS THAN \$2.0M (A/V)	BK5289	59988150.99P	509
112	CALIBRATION SETS EQUIPMENT	BZ5269	50180147.99P	512
113	INTEGRATED FAMILY OF TEST EQUIP (IFTE)	KA4000	50340147.99P	519
114	TMDE MODERNIZATION (TMOD)	BZ5270	50660147.99P	534
116	PRODUCTION BASE SUPPORT (C-E)	BF5400	52716144.99P	539

DEPARTMENT OF THE ARMY  
FY 99 PROCUREMENT PROGRAM

EXHIBIT P-1  
February 1998

Appropriation: \*\*OTHER PROCUREMENT, ARMY\*\*

Activity: 2. \*\*COMMUNICATIONS AND ELECTRONICS\*\*

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 99 UNIT COST	(Thousands of Dollars)					
				FY 97		FY 98		FY 99	
(1)	(2)	(3)	(4)	QTY	COST	QTY	COST	QTY	COST
				(5)	(6)	(7)	(8)	(9)	(10)
	<b>**COMM - JOINT COMMUNICATIONS**</b>								
25	COMBAT IDENTIFICATION PROGRAM (BA0510)								4,890
26	JCSE EQUIPMENT (USREDCOM) (BB5777)				2,842		2,985		3,148
	<b>SUB-ACTIVITY TOTAL</b>				<b>2,842</b>		<b>2,985</b>		<b>8,038</b>
	<b>**COMM - SATELLITE COMMUNICATIONS**</b>								
27	DEFENSE SATELLITE COMMUNICATIONS SYSTEM (SPACE) (BB8500)				92,689		84,631		94,616
28	SHF TERM (BA9350)				13,260		13,907		25,328
29	SAT TERM, EMUT (SPACE) (K77200)			749	18,520	105	6,274		2,485
30	NAVSTAR GLOBAL POSITIONING SYSTEM (SPACE) (K47800)	B	490,428	12,017	26,130	17	5,432	14	6,866
31	GROUND COMMAND POST (BC4001)				707		572		
32	SMART-T (SPACE) (BC4002)				33,112		22,237		57,743
33	SCAMP (SPACE) (BC4003)				14,356		16,514		4,708
34	GLOBAL BRDCST SVC - GBS (BC4120)						9,821		5,873
35	MOD OF IN-SVC EQUIP (TAC SAT) (BB8417)				5,411		1,961		1,474
	<b>SUB-ACTIVITY TOTAL</b>				<b>204,185</b>		<b>161,349</b>		<b>199,093</b>

DEPARTMENT OF THE ARMY  
FY 99 PROCUREMENT PROGRAM

EXHIBIT P-1  
February 1998

Appropriation: \*\*OTHER PROCUREMENT, ARMY\*\*

Activity: 2. \*\*COMMUNICATIONS AND ELECTRONICS\*\*

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 99 UNIT COST	(Thousands of Dollars)					
				FY 97		FY 98		FY 99	
(1)	(2)	(3)	(4)	QTY (5)	COST (6)	QTY (7)	COST (8)	QTY (9)	COST (10)
	<b>**COMM - COMBAT SUPPORT COMM**</b>								
36	MSE MOD IN SERVICE (BB1611)				10,079				
	<b>SUB-ACTIVITY TOTAL</b>				<b>10,079</b>				
	<b>**COMM - C3 SYSTEM**</b>								
37	COMMAND CENTER IMPROVEMENT PROG (CCIP) (BA8200)				890				
38	SOUTHCOM HQ RELOCATION (BU4000)				20,462				
39	ARMY GLOBAL CMD & CONTROL SYS (AGCCS) (BA8250)	A			20,340		16,807		20,562
	<b>SUB-ACTIVITY TOTAL</b>				<b>41,692</b>		<b>16,807</b>		<b>20,562</b>
	<b>**COMM - COMBAT COMMUNICATIONS**</b>								
40	ARMY DATA DISTRIBUTION SYSTEM (ADDS) (BU1400)	B			77,504		67,163		24,048
41	MOBILE SUBSCRIBER EQUIP (MSE) (BB1610)	A			5,969				
42	SINGARS FAMILY (BW0006)	A			311,320		285,199		13,212
43	JOINT TACTICAL AREA COMMS SYS (BA1010)	A			43,342		10,371		9,925
44	ACUS MOD PROGRAM (WIN-T/T) (BB1600)	A			13,174		102,299		97,080

DEPARTMENT OF THE ARMY  
FY 99 PROCUREMENT PROGRAM

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February 1998

Appropriation: \*\*OTHER PROCUREMENT, ARMY\*\*

Activity: 2. \*\*COMMUNICATIONS AND ELECTRONICS\*\*

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 99 UNIT COST	(Thousands of Dollars)					
				FY 97			FY 98		
				QTY	COST	(5)	QTY	COST	(9)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(10)	
45	TAC RADIO (BA1205)			1,120	35,529				
46	C-E CONTINGENCY/FIELDING EQUIP (BA5210)				569		1,964	2,166	
47	SOLDIER ENHANCEMENT PROGRAM COMM/ELECTRONICS (BA5300)						974	4,593	
48	COMBAT SURVIVOR EVADER LOCATOR (CSEL) (B03200)	B					5,510	13,712	
49	MEDICAL COMM FOR CBT CASUALTY CARE (MC4) (MA8046)							9,440	
	SUB-ACTIVITY TOTAL				487,407		473,480	174,176	
	**COMM - INTELLIGENCE COMM**								
50	JWICS CONNECTIVITY (BD3400)	A			662				
51	CI AUTOMATION ARCHITECTURE (BK5284)	A			2,437		2,230	2,319	
52	CI CONUS BASED LAN (BK5287)	A			727				
	SUB-ACTIVITY TOTAL				3,826		2,230	2,319	
	**COMM - INFORMATION SECURITY**								
53	TSEC - ARMY KEY MGT SYS (AKMS) (BA1201)						4,576	10,315	

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FY 99 PROCUREMENT PROGRAM

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February 1998

Appropriation: \*\*OTHER PROCUREMENT, ARMY\*\*

Activity: 2. \*\*COMMUNICATIONS AND ELECTRONICS\*\*

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 99 UNIT COST	(Thousands of Dollars)					
				FY 97			FY 98		
				QTY	COST		QTY	COST	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
54	INFORMATION SYSTEM SECURITY PROGRAM - ISSP (TA0600)	A			19,789		13,403		29,714
	SUB-ACTIVITY TOTAL				19,789		17,979		40,029
	**COMM - LONG HAUL COMMUNICATIONS**								
55	TERRESTRIAL TRANSMISSION (BU1900)				6,692		20,237		1,953
56	BASE SUPPORT COMMUNICATIONS (BU4160)				2,634		1,822		1,124
57	ARMY DISN ROUTER (BU0300)				2,074		2,903		3,614
58	ELECTROMAG COMP PROG (EMCP) (BD3100)				451		455		452
59	WW TECH CON IMP PROG (WWTCIP) (BU3610)				1,175		916		2,031
	SUB-ACTIVITY TOTAL				13,026		26,333		9,174
	**COMM - BASE COMMUNICATIONS**								
60	INFORMATION SYSTEMS (BB8650)				48,495		50,193		91,213
61	DEFENSE MESSAGE SYSTEM (DMS) (BU3770)				6,255		7,728		16,723
62	LOCAL AREA NETWORK (LAN) (BU4165)				17,694		17,061		9,978

Appropriation: \*\*OTHER PROCUREMENT, ARMY\*\*

Activity: 2. \*\*COMMUNICATIONS AND ELECTRONICS\*\*

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 99 UNIT COST	(Thousands of Dollars)					
				FY 97			FY 98		
				QTY	COST	(6)	QTY	COST	(8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(9)	(10)	(10)
63	PENTAGON INFORMATION MGT AND TELECOM (BQ0100)  SUB-ACTIVITY TOTAL				50,250 ----- 122,694			27,437 ----- 102,419	39,195 ----- 157,109
	**ELECT EQUIP - NAT FOR INT PROG (NFIP)**								
64	FOREIGN COUNTERINTELLIGENCE PROG (FCI) (BK5282)				2,086			3,897	876
65	GENERAL DEFENSE INTELL PROG (GDIP) (BD3900)				23,583			18,856	21,562
66	ITEMS LESS THAN \$2.0M (INTEL SPT) - TIARA (BL5278)				9,005			2,718	
	SUB-ACTIVITY TOTAL				----- 34,674			----- 25,471	----- 22,438
	**ELECT EQUIP - TACT INT REL ACT (TIARA)**								
67	ALL SOURCE ANALYSIS SYS (ASAS) (TIARA) (KA4400)	B			13,824			22,770	24,117
68	JTT/CIBS-M (TIARA) (V29600)	B	95,357	71	20,801	35		11,190	5,340
69	IEW - GND BASE COMMON SENSORS (TIARA) (BZ7326)	B			41,436				25,388
70	JOINT STARS (ARMY) (TIARA) (BA1080)	B			84,719			91,079	87,229
71	NATO-AGS (BA1082)							611	

DEPARTMENT OF THE ARMY  
FY 99 PROCUREMENT PROGRAM

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February 1998

Appropriation: \*\*OTHER PROCUREMENT, ARMY\*\*

Activity: 2. \*\*COMMUNICATIONS AND ELECTRONICS\*\*

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 99 UNIT COST	(Thousands of Dollars)					
				FY 97			FY 98		
				QTY	COST	(5)	QTY	COST	(9)
(1)	(2)	(3)	(4)	(5)	(6)	(5)	(7)	(8)	(10)
72	INTEGRATED BROADCAST TERMINAL MODS (TIARA) (BA1081)				1,445			3,197	6,487
73	DIGITAL TOPOGRAPHIC SPT SYS (DTSS) (TIARA) (KA2550)	B	1,769,166	3	6,386		4	7,246	21,230
74	DRUG INTERDICTION PROGRAM (DIP) (TIARA) (BU4050)				2,540				
75	TACTICAL EXPLOITATION OF NATIONAL CAPABILITY (BZ7315)				1,818			1,629	1,690
76	JOINT TACTICAL GROUND STATION MODS (BZ8420)							2,827	2,638
77	TROJAN (TIARA) (BA0326)	B			4,179			3,729	3,991
78	MOD OF IN-SVC EQUIP (INTEL SPT) (TIARA) (BZ9750)				14,433			1,627	4,891
79	CI HUMINT AUTOMATED TOOL SET (CHATS) (TIARA) (BK5275)								3,700
80	ITEMS LESS THAN \$2.0M (TIARA) (BK5278)				443			511	530
	<b>SUB-ACTIVITY TOTAL</b>				<b>192,024</b>			<b>146,416</b>	<b>187,231</b>
	<b>**ELECT EQUIP - ELECTRONIC WARFARE (EW)**</b>								
81	SHORTSTOP (VA8000)				5,000			5,824	

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February 1998

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LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 99 UNIT COST	(Thousands of Dollars)					
				FY 97			FY 98		
				QTY	COST		QTY	COST	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
82	COUNTERINTELLIGENCE/SECURITY COUNTERMEASURES (BL5283)				1,629		2,257		1,725
	SUB-ACTIVITY TOTAL				6,629		8,081		1,725
	**ELECT EQUIP - TACTICAL SURV. (TAC SURV)**								
83	SENTINEL (FAAD GBS) (WK5053)		2,532,478	28	68,877	27	59,447	23	58,247
84	TARGET LOCATION OBSERVATION SYSTEM (TLOS) (K38400)	B	49,525		13,861	435	20,755	238	11,787
85	NIGHT VISION DEVICES (KA3500)	A		1,064	100,570		42,241		29,636
86	LTWT VIDEO RECON SYSTEM (LWVRS) (K30800)	A	30,581	94	2,589	90	4,336	110	3,364
87	NIGHT VISION, THERMAL WPN SIGHT (K22900)	B	23,725	1,650	45,137	1,413	41,079	1,522	36,110
88	ARTILLERY ACCURACY EQUIP (AD3200)				4,549		4,415		11,004
89	MOD OF IN-SVC EQUIP (TAC SURV) (BZ7325)	B			16,124		1,188		5,477
90	COMPUTER BALLISTICS; XM-30 (K99200)	A		232	6,775				
91	INTEGRATED MET SYS SENSORS (IMETS) - TIARA (BW0021)		978,000	5	3,125	2	1,338	5	4,890
	SUB-ACTIVITY TOTAL				261,607		174,799		160,515



DEPARTMENT OF THE ARMY  
FY 99 PROCUREMENT PROGRAM

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February 1998

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LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 99 UNIT COST	(Thousands of Dollars)					
				FY 97			FY 98		
				QTY	COST	QTY	COST	QTY	COST
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	<b>**ELECT EQUIP - TACTICAL C2 SYSTEMS**</b>								
92	TACTICAL OPERATIONS CENTERS (BZ9865)								26,703
93	ADV FIELD ARTILLERY TACT DATA SYS (AFATDS) (B28600)	B	172,976	291	36,845	190	32,270	212	36,671
94	FIRE SUPPORT ADA CONVERSION (B78400)	A			2,077		3,209		
95	CMBT SVC SUPT CONTROL SYS (CSSCS) (W34600)		76,491	54	5,778	57	5,590	122	9,332
96	FAAD C2 (AD5050)	A	7,102,000	3	41,915	1	12,696	2	14,204
97	FORWARD ENTRY DEVICE (FED) (BZ9851)	B			9,983		2,312		25,040
98	STRIKER-COMMAND AND CONTROL SYSTEM (B78500)		401,666					15	6,025
99	LIFE CYCLE SOFTWARE SUPPORT (LCSS) (BD3955)				2,004		1,919		1,174
100	LOGTECH (BZ8889)	B			7,477		12,966		3,238
101	TC AIMS II (BZ8900)						2,132		445
102	GUN LAYING AND POS SYS (GLPS) (A30000)	B	93,500				5,824	126	11,781
103	ISYSCON EQUIPMENT (BX0007)				2,674		10,333		34,175

DEPARTMENT OF THE ARMY  
FY 99 PROCUREMENT PROGRAM

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February 1998

Appropriation: \*\*OTHER PROCUREMENT, ARMY\*\*

Activity: 2. \*\*COMMUNICATIONS AND ELECTRONICS\*\*

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 99 UNIT COST	(Thousands of Dollars)					
				FY 97			FY 98		
				QTY	COST	(5)	QTY	COST	(6)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
104	MANEUVER CONTROL SYSTEM (MCS) (BA9320)	A	135,760	81	13,011	138		96	13,033
105	STAMIS TACTICAL COMPUTERS (STACOMP) (W00800)	A	29,545		42,407	1,615	35,064	1,633	48,248
106	STANDARD INTEGRATED CMD POST SYSTEM (BZ9962)				39,776		32,649		26,827
	<b>SUB-ACTIVITY TOTAL</b>				<b>203,947</b>		<b>156,964</b>		<b>256,896</b>
	<b>**ELECT EQUIP - AUTOMATION**</b>								
107	ARMY TRAINING XXI MODERNIZATION (BE4169)						24,497		32,635
108	AUTOMATED DATA PROCESSING EQUIP (BD3000)				138,352		129,412		130,712
109	RESERVE COMPONENT AUTOMATION SYS (RCAS) (BE4167)				72,153		110,969		108,192
	<b>SUB-ACTIVITY TOTAL</b>				<b>210,505</b>		<b>264,878</b>		<b>271,539</b>
	<b>**ELECT EQUIP - AUDIO VISUAL SYSTEMS (A/V)**</b>								
110	AFRTS (BZ8480)				2,383		446		487
111	ITEMS LESS THAN \$2.0M (A/V) (BK5289)				2,096		2,547		4,597
	<b>SUB-ACTIVITY TOTAL</b>				<b>4,479</b>		<b>2,993</b>		<b>5,084</b>

DEPARTMENT OF THE ARMY  
FY 99 PROCUREMENT PROGRAM

EXHIBIT P-1  
February 1998

Appropriation: \*\*OTHER PROCUREMENT, ARMY\*\*

Activity: 2. \*\*COMMUNICATIONS AND ELECTRONICS\*\*

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 99 UNIT COST	(Thousands of Dollars)					
				FY 97		FY 98		FY 99	
				QTY	COST	QTY	COST	QTY	COST
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	<b>**ELECT EQUIP - TEST MEAS&amp;DIAG EQUIP (TMDE)**</b>								
112	CALIBRATION SETS EQUIPMENT (BZ5269)	A			10,984				
113	INTEGRATED FAMILY OF TEST EQUIP (IFTE) (KA4000)	B			21,651				
114	TEST EQUIPMENT MODERNIZATION (TEMOD) (BZ5270)	A			8,150				
	<b>SUB-ACTIVITY TOTAL</b>				<b>40,785</b>				
	<b>**ELECT EQUIP - SUPPORT**</b>								
115	INSTALLATION C4 UPGRADE (ICU) (BB1000)				595				
116	PRODUCTION BASE SUPPORT (C-E) (BF5400)				680		405		403
	<b>SUB-ACTIVITY TOTAL</b>				<b>1,275</b>		<b>405</b>		<b>403</b>
	<b>ACTIVITY TOTAL</b>				<b>1,861,465</b>		<b>1,583,589</b>		<b>1,516,331</b>

Exhibit P-1M, Procurement Programs - Modification Summary

System/Modification	(TOA, Dollars in Millions)										Total Program
	Prior 1996 &	1997	1998	1999	2000	2001	2002	2003	Complete	To	
<b>DSCS - MOD OF IN-SVC EQUIP (SPACE) (BB8416)</b>											
AN/GSC-52 Modernization		20.3	26.9	28.4	22.4	33.1	31.7	29.4			192.2
Terminal Modernization	39.4	13.2	6.6	3.4							62.6
<b>Total</b>	<b>39.4</b>	<b>33.5</b>	<b>33.5</b>	<b>31.8</b>	<b>22.4</b>	<b>33.1</b>	<b>31.7</b>	<b>29.4</b>			<b>254.8</b>
<b>MOD OF IN-SVC EQUIP (TAC SAT) (BB8417)</b>											
Multi-Channel Initial System (MCIS)	14.4	5.4	2.0	1.5							23.3
<b>Total</b>	<b>14.4</b>	<b>5.4</b>	<b>2.0</b>	<b>1.5</b>							<b>23.3</b>
<b>MSE MOD IN SERVICE (BB1611)</b>											
ECB Area Common User System Modernization Plan	17.0	10.1									27.1
<b>Total</b>	<b>17.0</b>	<b>10.1</b>									<b>27.1</b>
<b>ACUS MOD PROGRAM (WIN-T) (BB1600)</b>											
EAC Area Common Use System Modernization Plan	11.4	13.2	102.3	97.1	108.6	114.9	150.5	100.4	2127.6		2826.0
<b>Total</b>	<b>11.4</b>	<b>13.2</b>	<b>102.3</b>	<b>97.1</b>	<b>108.6</b>	<b>114.9</b>	<b>150.5</b>	<b>100.4</b>	<b>2127.6</b>		<b>2826.0</b>
<b>INTEGRATED BROADCAST TERMINAL MODS (TIARA) (BA1081)</b>											
SOFTWARE DOWNLOAD CAPABILITY		1.4									1.4
PROCESSOR UPGRADE			1.3	3.6							4.9
COMSEC CIRCUITRY REPLACEMENT			0.7	1.2							1.9
DAMATIZATION			1.2	1.7							2.9
<b>Total</b>		<b>1.4</b>	<b>3.2</b>	<b>6.5</b>							<b>11.1</b>
<b>JOINT TACTICAL GROUND STATION MODS (BZ8420)</b>											
Sensor Fusion			0.7								0.7
Beacons			2.1								2.1
Joint Tactical Information Distribution System (JTIDS)				2.6							2.6
<b>Total</b>			<b>2.8</b>	<b>2.6</b>							<b>5.4</b>
<b>MOD OF IN-SVC EQUIP (INTEL SPT) (TIARA) (BZ9750)</b>											

Exhibit P-1M, Procurement Programs - Modification Summary

System/Modification	(TOA, Dollars in Millions)										To Complete	Total Program
	1996 & Prior	1997	1998	1999	2000	2001	2002	2003				
SINGARS Interference Cancellation	16.5	14.4	1.7									32.6
TEAMMATE Tactical Proficiency Trainer (TPT)	6.5											6.5
Enhance TRACKWOLF Mods	19.9			4.9	8.1							19.9
AN/PRD-13 (V) 2 Procurement					6.2	12.4	12.8	21.2		0.6		13.0
GBCS Upgrades				4.9	14.3	12.4	12.8	21.2		0.6		53.2
<b>Total</b>	<b>42.9</b>	<b>14.4</b>	<b>1.7</b>	<b>4.9</b>	<b>14.3</b>	<b>12.4</b>	<b>12.8</b>	<b>21.2</b>		<b>0.6</b>		<b>125.2</b>
<b>MOD OF IN-SVC EQUIP (TAC SURV) (BZ7325)</b>												
AN/TPQ-36(V)8 Electronic Upgrade	63.5	15.4	1.2	1.2	3.3	1.0	36.2	40.6				162.4
AN/TPQ-37(V)7 ATG Mobility Improvement	4.1	0.3										4.4
AN/TPQ-37(V)8 Enhanced FIREFINDER Block I	26.5	0.4					4.7	0.5				32.1
Fire Support Digitization				4.3	1.8							6.1
<b>Total</b>	<b>94.1</b>	<b>16.1</b>	<b>1.2</b>	<b>5.5</b>	<b>5.1</b>	<b>1.0</b>	<b>40.9</b>	<b>41.1</b>				<b>205.0</b>
<b>Grand Total</b>	<b>219.2</b>	<b>94.1</b>	<b>146.7</b>	<b>149.9</b>	<b>150.4</b>	<b>161.4</b>	<b>235.9</b>	<b>192.1</b>		<b>2128.2</b>		<b>3477.9</b>

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												P-1 Item Nomenclature:
COMBAT IDENTIFICATION PROGRAM (BA0510)												
Program Elements for Code B Items:												
Other Related Program Elements:												
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty						10	328	865	990	427		2620
Gross Cost	0.0	0.0	0.0	0.0	0.0	4.9	14.6	27.1	28.4	13.6	0.0	88.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	0.0	4.9	14.6	27.1	28.4	13.6	0.0	88.6
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	0.0	4.9	14.6	27.1	28.4	13.6	0.0	88.6
Flyaway U/C						0.470	0.043	0.026	0.022	0.017		
Wpn Sys Proc U/C						0.490	0.044	0.032	0.029	0.032		

**NARRATIVE:** The Battlefield Combat Identification System (BCIS) is an all weather, day/night, millimeter wave, Low Probability of Intercept/Low Probability of Detection (LP/ILPD), digitally encrypted question and answer system that provides positive identification of friendly platforms out to 5.5 km (clear weather). BCIS was developed to minimize fratricide while maximizing combat effectiveness given the rapid shoot/don't shoot decision at the point of engagement. BCIS also provides short range (out to 1 km, in clear weather), situational awareness messages at the platoon level. Any situational awareness received by BCIS will be sent to the Applique for integration with other position sources to form the full situational awareness database.

**JUSTIFICATION:** Performance results from the Army TF XXI AWE indicate that situational awareness (SA) in its current form is insufficient to prevent fratricide by itself, thus a Target Identification (TI) capability is required. FY99 funding is required to initiate production for fielding to selected units of the Army's 4th ID in order to comply with Chief of Staff, Army plan to field to a digitized division. FY99 funding includes the cost of initial hard tooling and production line set-up to support low rate and full scale production of the system. FY99 also provides for sufficient quantities to conduct Production Verification Test (PVT).

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: COMBAT IDENTIFICATION PROGRAM (BA0510)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		ID	FY 96		FY 97		FY 98		FY 99				
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	\$000
1. Initial Production Facilities												3702	
2. BCIS												709	10
3. Project Management Admin												346	
4. System Test and Evaluation													
5. Support													
Technical Data												55	
Support Equipment													
Operational/Site Activation													
ECOs												78	
6. Fielding													
Total System Cost												4890	

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature: COMBAT IDENTIFICATION PROGRAM (BA0510)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
BCIS	TRW, Redondo Beach, CA	SS/FPI	CECOM, Ft. Monmouth, NJ	Apr-99	Apr 00	10	50	Yes	NA	Jan-99
BCIS	TRW, Redondo Beach, CA	SS/FPI	CECOM, Ft. Monmouth, NJ	Oct-99	Sep-00	328	26			
BCIS	TRW, Redondo Beach, CA	SS/FFP	CECOM, Ft. Monmouth, NJ	Oct-00	Aug-01	865	22			
BCIS	TRW, Redondo Beach, CA	SS/FFP	CECOM, Ft. Monmouth, NJ	Oct-01	Aug-02	990	21			
BCIS	TRW, Redondo Beach, CA	SS/FFP	CECOM, Ft. Monmouth, NJ	Oct-02	Aug-03	427	16			
<b>REMARKS:</b> The LRIP and first Digitized Division requirements will be awarded on an other than full and open competition basis. The system is deemed to be available only from the original source because an award to any other source would result in both a substantial duplication of cost to the government and unacceptable delays in fulfilling the Army's requirements for fielding to a Digitized Division.										









Exhibit P-40, Budget Item Justification Sheet												Date: February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												JCSE EQUIPMENT (USHEDCOM) (BB5777)
Program Elements for Code B Items:												Other Related Program Elements:
Code: A												Code: A
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	52.2	1.8	2.2	2.8	3.0	3.1	5.2	4.7	5.8	5.9	0.0	86.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	52.2	1.8	2.2	2.8	3.0	3.1	5.2	4.7	5.8	5.9	0.0	86.7
Initial Spares												
Total Proc Cost	52.2	1.8	2.2	2.8	3.0	3.1	5.2	4.7	5.8	5.9	0.0	86.7
Flyaway U/C												
Wpn Sys Proc U/C												

**DESCRIPTION:**  
 Provides Joint Staff directed Army share of funds to equip the Joint Communications Support Element (JCSE). The JCSE is a unique, completely mobile, multi-service communications unit which provides support to the Unified and Specified Commands at the direction of the Joint Staff. The JCSE has the capability to deploy to any location and provide simultaneous communications support to two Joint Task Force (JTF) Headquarters and two Joint Special Operations Task Force (JSOTF) Headquarters involved in worldwide contingency operations or disaster relief/evacuation activities. JCSE also augments or provides contingency emergency communications support to meet the critical operational needs of the Joint Staff, the Services, defense and/or civil agencies, etc. and on a non-interference basis, provides communications support for joint readiness exercises. Equipment to be procured includes wideband microwave radio systems, packet switching nodes, line termination modules for Echelons Above Corps switches, Demand Assigned Multiple Access satellite radios, MILSTAR radios, Asynchronous Transfer Mode (ATM) switching nodes, and upgrades to existing systems.

**JUSTIFICATION:**  
 Equipment requirements are approved annually by the JCS and assigned to the respective Services for procurement through the Executive Acquisition Agent (ARMY).

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												DEFENSE SATELLITE COMMUNICATIONS SYSTEM (BB8500)
Code:												Other Related Program Elements:
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty												
Gross Cost	1818.8	103.5	74.3	92.7	84.6	71.5	75.8	65.1	63.5		2544.4	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	1818.8	103.5	74.3	92.7	84.6	71.5	75.8	65.1	63.5		2544.4	
Initial Spares												
Total Proc Cost	1818.8	103.5	74.3	92.7	84.6	71.5	75.8	65.1	63.5		2544.4	
Flyaway U/C												
Wpn Sys Proc U/C												

**DESCRIPTION:** The Defense Satellite Communications System (DSCS) provides super high frequency (SHF) wideband and anti-jam (AJ) satellite communications supporting critical national strategic and tactical C3I requirements. It must be survivable during trans- and post- nuclear attack to support communications essential to national survival. The DSCS supports the Army warfighter as well as the unique and vital Department of Defense (DOD) and non-DOD users, as approved by the Joint Staff and/or Secretary of Defense (SECDEF). The DSCS is used in conjunction with the Terrestrial Transmissions of the Defense Information System Network (DISN) and other communications systems to provide end-to-end communications. The DSCS provides long-haul service between the Continental United States (CONUS) and overseas locations.

**JUSTIFICATION:** Funds are required to support various requirements as directed by the National Command Authorities (NCA), Commanders in Chief (CINCs), White House Communications Agency (WHCA), Navy C2, NATO, UK, and Diplomatic Telecommunications Service (DTS).

FY99 JRSC funds will provide for the continued acquisition of the Universal Modern System (UMS). FY99 Mod of In-Service equipment funds provide for continued installation and fielding of the Heavy/Medium Terminals' (HT/MT) MWO kits and AN/GSC-52 installation kits. FY99 DSCS Operations Control System (DOCS) funds complete the procurement of the Replacement Satellite Configuration Control Element (RSCCE) program and continues procurement of Operational Databases. FY99 Digital Equipment funds will provide for continued fabrication of racks and components and their integration into DSCS. FY99 Interconnect Facility (ICF) funds will continue to accomplish DISA and JCS directed satellite ground terminal relocations supporting realignment of U.S. forces worldwide. In addition, FY99 funds annualized engineering, matrix, and fielding support for current and prior year DSCS procurements.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: DEFENSE SATELLITE COMMUNICATIONS SYSTEM (BB8500)			Weapon System Type:			Date: February 1998 <sup>1</sup>		
OPA Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
DSCS - DIGITAL EQUIPMENT (SPACE)			19876			17101			13611			11286		
DSCS - INTERCONNECT FACILITY (SPACE)			2898			3150			3138			10585		
DSCS - JAM RESISTANT SECURE COMM (JRSC)			4538			28749			17499			14028		
DSCS - OPERATIONS CONTROL SYS (DOCS)			7614			10140			16896			26966		
DSCS - MOD OF IN-SVC EQUIP (SPACE)			39385			33549			33487			31751		
TOTAL			74311			92689			84631			94616		

# Exhibit P-40, Budget Item Justification Sheet

Appropriation / Budget Activity/Serial No: \_\_\_\_\_ Date: \_\_\_\_\_ February 1998

OTHER PROCUREMENT / 2 / Communications and Electronics Equipment

P-1 Item Nomenclature: DSCS - DIGITAL EQUIPMENT (SPACE) (BB8501)

Program Elements for Code B Items:		Other Related Program Elements:									
		Code:									
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	Total Prog
Proc Qty											
Gross Cost	320.4	27.8	19.9	17.1	13.6	11.3	10.6	10.5	7.4	7.6	446.2
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc (P-1)	320.4	27.8	19.9	17.1	13.6	11.3	10.6	10.5	7.4	7.6	446.2
Initial Spares											
Total Proc Cost	320.4	27.8	19.9	17.1	13.6	11.3	10.6	10.5	7.4	7.6	446.2
Flyaway U/C											
Wpn Sys Proc U/C											

DESCRIPTION: The Defense Satellite Communications System (DSCS) is a subset of the entire Defense Communications System (DCS). The Army DSCS provides research, development, and procurement of the ground segment portion of all strategic satellite communications systems. This equipment accepts voice frequency and digital data from other terrestrial ground systems, i.e., telephone, telephone switching centers, Defense Data Network (DDN), Defense Switched Network (DSN), Secure Voice Communications and microwave; and converts the aggregate user signals into a digital signal which is then transmitted to its recipients utilizing DSCS satellites that are in geostationary earth orbits for worldwide coverage. This long haul strategic military communications system utilizes equipment that makes maximum use of multiplexing, modulation, and coding techniques in order to maximize satellite utilization. This equipment is integrated into the Digital Communications Satellite Subsystem (DCSS) which is a system of electronic racks integrated into a vanized or fixed configuration. Each system is tailored to the individual user earth terminal requirements.

JUSTIFICATION: The DSCS Program must be sustained through the year 2010 to support projected future operational needs. A sustainment program has been established for the DCSS to increase supportability and efficiency while decreasing space, power, and personnel requirements. FY99 funds will provide for fabrication of racks and components and their integration into the DSCS. Primary emphasis is the fabrication of racks in support of Jam Resistant Secure Communications (JRSC), and global Tri-Service Frequency Division Multiple Access (FDMA) earth terminal communications requirements scheduled for installation during this period. These JRSC racks and FDMA racks provide the maximum efficiency in long-range communications by integrating all digital communications network control, and anti-jam secure communications in one system. Another DCSS priority is the procurement of the Integrated Baseband Work Station, which reduces O&M costs by providing centralized equipment configuration, control, and monitoring. The DCSS also provides for the fabrication of racks and equipment to field the Strategic/Tactical Gateways, the primary means of interoperable communications providing tactical warfighters

<b>Exhibit P-40C Budget Item Justification Sheet</b>			Date	February 1998
Appropriation / Budget Activity/Serial No. OTHER PROCUREMENT / 2 / Communications and Electronics Equipment	P-1 Item Nomenclature	DSCS - DIGITAL EQUIPMENT (SPACE) (BB8501)		
Program Elements for Code B Items	Code	Other Related Program Elements		
<p>global connectivity with each other and with strategic commanders, CINC's, and the Pentagon. The Multiplexer Integration and DCSS Automation System will provide backward compatibility with the existing tactical infrastructure while also providing technology insertion for expanded capabilities. FY99 also initiates the 8-PSK (phase shift keying) modem procurement, which compresses strategic users on the DCSS and allows for expanded tactical access.</p>				



Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: DSCS - DIGITAL EQUIPMENT (SPACE) (BB5501)			Weapon System Type:			Date: February 1998		
ID	CD	OPA Cost Elements	FY 96			FY 97			FY 98			FY 99		
			TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
A		DCSS Equipment Racks and Fabrication Hardware Integration	5517 220	6	VAR	4265 170	4	VAR	3060 120	4	VAR	2510 100	4	VAR
		Engineering Support Contractor Engineering Government Engineering	1785 1825			1650 1750			1650 1750			1600 1400		
		Documentation	1000			796			700			500		
		OM-73 Modern Procurement Hardware	4029	237	17									
		Multiplex Systems	5500	8	VAR	1127	2	VAR						
		Integrated Baseband Workstation							402	67	6	300	50	6
		Multiplexer Integration & DCSS Automation System (MIDAS) Non-Recurring Contractor Engrg/Data				1690 5653	3	VAR	4400	8	VAR	3000	6	VAR
		8-PSK Modem							896	32	28	1876	67	28
		TAXES							633					
		<b>TOTAL</b>	<b>19876</b>			<b>17101</b>			<b>13611</b>			<b>11286</b>		
NOTE: FY97 Dollars are actual, database will be corrected during the next open window.														

Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					Weapon System Type:			P-1 Line Item Nomenclature: DSCS - DIGITAL EQUIPMENT (SPACE) (BB8501)				
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
DCSS Equipment Racks and Fabrication		TYAD		WR	CECOM	Nov-95	Jan-96	6	VAR	Yes		
FY96		TYAD		WR	CECOM	Nov-96	Jan-97	4	VAR	Yes		
FY97		TYAD		WR	CECOM	Nov-97	Feb-98	4	VAR	Yes		
FY98		TYAD		WR	CECOM	Nov-98	Jan-99	4	VAR	Yes		
FY99		TYAD		WR	CECOM	Nov-98	Jan-99	4	VAR	Yes		
OM-73 Modem Procurement Hardware		GROUP TECH CORP		C/FFP Opt	CECOM	Mar-96	Oct-96	237	17	Yes		
FY96		GROUP TECH CORP		C/FFP Opt	CECOM	Mar-96	Oct-96	237	17	Yes		
Multiplex Systems		NET		MIPR	DISA	Feb-96	May-96	8	VAR	Yes		
FY96		NET		MIPR	DISA	Feb-97	May-97	2	VAR	Yes		
FY97		NET		MIPR	DISA	Feb-97	May-97	2	VAR	Yes		
Integrated Baseband Workstation		TBS		C/FFP	CECOM	Feb-98	May-98	67	6	Yes		
FY98		TBS		C/FFP Opt	CECOM	Feb-99	May-99	50	6	Yes		
FY99		TBS		C/FFP Opt	CECOM	Feb-99	May-99	50	6	Yes		
MIDAS		RAYTHEON		C/FFP	CECOM	May-97	May-98	3	VAR	Yes		
FY97		RAYTHEON		C/FFP Opt	CECOM	Feb-98	Feb-99	8	VAR	Yes		
FY98		RAYTHEON		C/FFP Opt	CECOM	Feb-99	Feb-00	6	VAR	Yes		
FY99		RAYTHEON		C/FFP Opt	CECOM	Feb-99	Feb-00	6	VAR	Yes		
8-PSK Modem		TBS		C/FFP	CECOM	Mar-98	Jun-98	32	28	Yes		
FY98		TBS		C/FFP Opt	CECOM	Mar-99	Jun-99	67	28	Yes		
FY99		TBS		C/FFP Opt	CECOM	Mar-99	Jun-99	67	28	Yes		
REMARKS:											DISA = DEFENSE INFORMATION SYSTEMS AGENCY	
WR = WORK REQUEST											NET = NETWORK EQUIPMENT TECHNOLOGY	
TYAD = TOBYHANNA ARMY DEPOT											GROUP TECH CORP = GROUP TECHNOLOGIES CORPORATION	
MIPR = MILITARY INTERDEPARTMENTAL PURCHASE REQUEST											PSK = PHASE SHIFT KEYING	
MIDAS = MULTIPLEXER INTEGRATION & DCSS AUTOMATION SYSTEM												

FY 98 / 99 BUDGET PRODUCTION SCHEDULE																														
P-1 Item Nomenclature: DCS - DIGITAL EQUIPMENT (SPACE) (BB8501)																														
Date: February 1998																														
MFR	NAME / LOCATION	FY	SERV	PROC QTY Each	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 97																							
							Calendar Year 96						Calendar Year 97																	
							O	N	D	E	C	J	F	M	A	P	R	Y	N	J	U	U	L	G	P	S	A	T	E	R
1	DCSS Equipment Racks and Fabrication	1	FY96	A	6	0	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1		1	FY97	A	4	0	4																							
1		1	FY98	A	4	0	4																							
1		1	FY99	A	4	0	4																							
2	OM-73 Modem Procurement Hardware	2	FY96	A	237	0	237																							
3	Multiplex Systems	3	FY96	A	8	0	8																							
3		3	FY97	A	2	0	2																							
4	Integrated Baseband Workstation	4	FY98	A	67	0	67																							
4		4	FY99	A	50	0	50																							
5	MIDAS	5	FY97	A	3	0	3																							
5		5	FY98	A	8	0	8																							
5		5	FY99	A	6	0	6																							
6	8-PSK Modem	6	FY98	A	32	0	32																							
6		6	FY99	A	67	0	67																							
							REORDER																							
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Exhibit P-40, Budget Item Justification Sheet											Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:									DSCS - INTERCONNECT FACILITY (SPACE) (BBB504)	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Other Related Program Elements:										
Program Elements for Code B Items:		Code:	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	106.1		2.9	3.2	3.1	10.6	10.3	10.3	10.6	10.8		172.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	106.1		2.9	3.2	3.1	10.6	10.3	10.3	10.6	10.8		172.4
Initial Spares												
Total Proc Cost	106.1		2.9	3.2	3.1	10.6	10.3	10.3	10.6	10.8		172.4
Flyaway U/C												
Wpn Sys Proc U/C												

**DESCRIPTION:** This program executes the Army's executive agency responsibility to install and relocate strategic DSCS satellite communications earth terminals procured by Product Manager, Defense Satellite Communications System (DSCS) Terminals and digital communications equipment procured and packaged by Space & Terrestrial Communications Directorate. For the Army, this program also designs, procures and installs the interconnection facility to interface this equipment with existing technical control and special user facilities.

**JUSTIFICATION:** FY99 funds buy equipment in support of Defense Information Systems Agency (DISA) and Joint Chiefs of Staff (JCS) directed satellite ground terminal relocations supporting the realignment of US Forces worldwide. Reduced overseas manning and the refocus of US interests to areas such as Southwest Asia requires a major shift of key strategic satellite ground resources to support new areas of interest and troop dispositions. Additionally, sustaining the Defense Satellite Communications System (DSCS) systems requires marginal systems to be replaced by newer equipment made available by US troop withdrawals from Europe and other areas. In addition, the FY99 program has been increased IAW AMC policy decision to fund all PM costs from the Procurement program.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: DSCS - INTERCONNECT FACILITY (SPACE) (BB8504)			Weapon System Type:			Date: February 1998		
OPA Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
NON-RECURRING ENGINEERING/TEST														
A		SITE PREP										4005		
A		INTERCONNECT FACILITY MBOM	203	2	VAR	135	1	135	250	VAR	VAR	250	VAR	VAR
A		INSTALLATION HDWR	727	VAR	VAR	714	VAR	VAR	900	VAR	VAR	900	VAR	VAR
A		FIELDING	424	VAR	VAR	548	VAR	VAR	600	VAR	VAR	600	VAR	VAR
A		DIRECT COMM LINK	50	VAR	VAR	50	VAR	VAR	65	VAR	VAR	75	VAR	VAR
A		INSTALLATION/CHECKOUT SPARES	750	1	750	296	1	296	173	1	173	215	1	215
A		INSTALLATION	344	VAR	VAR	387	VAR	VAR	400	VAR	VAR	400	VAR	VAR
A		DSCS EARTH TERM RESOURCE MGT SYS	400	VAR	VAR	450	VAR	VAR	250	VAR	VAR	250	VAR	VAR
A		DSCSI DIGITAL TRAINING				570	1	570	500	1	500	590	1	590
A		PROGRAM SUPPORT COSTS										700		
TOTAL			2898			3150			3138			10585		

Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:		P-1 Line Item Nomenclature: DSCS - INTERCONNECT FACILITY (SPACE) (BB8504)						
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revis Avail	RFP Issue Date
SITE PREP		IN-HOUSE		MIPR	COE 1/	Nov-95	Mar-96	2	VAR *	Yes	No	
FY96		IN-HOUSE		MIPR	COE	May-97	Jun-97	1	135	Yes	No	
FY97		IN-HOUSE		MIPR	COE	Mar-98	Mar-98	VAR *	VAR *	Yes	No	
FY98		IN-HOUSE		MIPR	COE	Mar-99	Mar-99	VAR *	VAR *	No	No	
FY99		IN-HOUSE		MIPR	COE							
INTERCONNECT FACILITY MBOM		VAR **		VAR	DDRW 2/	VAR	Mar-96	VAR *	VAR *	Yes	No	
FY96		VAR **		VAR	DDRW	VAR	Mar-97	VAR *	VAR *	Yes	No	
FY97		VAR **		VAR	DDRW	VAR	Mar-98	VAR *	VAR *	Yes	No	
FY98		VAR **		VAR	DDRW	VAR	Mar-99	VAR *	VAR *	No	No	
FY99		VAR **		VAR	DDRW							
INSTALLATION HDWR		VAR **		VAR	DDRW	VAR	Jan-96	VAR *	VAR *	Yes	No	
FY96		VAR **		VAR	DDRW	VAR	Jan-97	VAR *	VAR *	Yes	No	
FY97		VAR **		VAR	DDRW	VAR	Jan-98	VAR *	VAR *	Yes	No	
FY98		VAR **		VAR	DDRW	VAR	Jan-99	VAR *	VAR *	Yes	No	
FY99		VAR **		VAR	DDRW							
REMARKS: 1/ CORPS OF ENGINEERS, WINCHESTER, VA 2/ DEFENSE DISTRIBUTION REGION WEST, STOCKTON, CA												
* = SITE SPECIFIC ** = VARIOUS CONTRACTS AWARDED BY DDRW												



Exhibit P-5a, Budget Procurement History and Planning													
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					Weapon System Type:			Date: February 1998					
WBS Cost Elements: Fiscal Years					P-1 Line Item Nomenclature: DSCS - INTERCONNECT FACILITY (SPACE) (BB8504)								
Contractor and Location					Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
FIELDING													
FY96	IN-HOUSE				MIPR	ISEC	Nov-96	Dec-96	VAR *	VAR *	Yes	No	
FY97	IN-HOUSE				MIPR	ISEC	Nov-97	Dec-97	VAR *	VAR *	Yes	No	
FY98	IN-HOUSE				MIPR	ISEC	Nov-98	Dec-98	VAR *	VAR *	Yes	No	
FY99	IN-HOUSE				MIPR	ISEC	Nov-99	Dec-99	VAR *	VAR *	No		
DIRECT COMM LINK													
FY96	ALLIED SIGNAL 3/				C/FP	1110TH SIG BN	Jan-96	Jan-96	1	750	Yes	No	
FY97	ALLIED SIGNAL				C/FP	1110TH SIG BN	Dec-96	Jan-97	1	296	Yes	No	
FY98	ALLIED SIGNAL				C/FP	1110TH SIG BN	Dec-97	Jan-98	1	173	Yes	No	
FY99	ALLIED SIGNAL				C/FP	1110TH SIG BN	Dec-98	Jan-99	1	215	No		
INSTALLATION/CHECKOUT SPARES													
FY96	IN-HOUSE				REQ	CECOM	VAR	Dec-95	VAR *	VAR *	Yes	No	
FY97	TYAD 4/				DEPOT	CECOM	VAR	May-97	VAR *	VAR *	Yes	No	
FY98	IN-HOUSE				REQ	CECOM	VAR	Nov-97	VAR *	VAR *	Yes	No	
FY99	IN-HOUSE				REQ	CECOM	VAR	Nov-98	VAR *	VAR *	No		
DSCS EARTH TERM RESOURCE MGT SYS													
FY96	SAIC 5/				C/FP	ISC	Jan-96	Feb-96	VAR *	VAR *	Yes	No	
FY97	SAIC				C/FP	ASC	Jan-97	Feb-97	VAR *	VAR *	Yes	No	
FY98	SAIC				C/FP	ASC	Jan-98	Feb-98	VAR *	VAR *	Yes	No	
FY99	SAIC				C/FP	ASC	Jan-99	Feb-99	VAR *	VAR *	No		
REMARKS:					3/ ALLIED SIGNAL, GREENBELT, MD 4/ TOBYHANNA ARMY DEPOT, TOBYHANNA, PA 5/ SCIENCE APPLICATIONS INTERNATIONAL CORP., SIERRA VISTA, AZ      * = SITE SPECIFIC								

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature: DSCS - INTERCONNECT FACILITY (SPACE) (BB8504)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsh Avail	RFP Issue Date
DSCSI DIGITAL TRAINING FY97 FY98 FY99	CSC 6/ CSC CSC	C/FP C/FP C/FP	CECOM CECOM CECOM	Feb-97 Jan-98 Feb-99	Mar-97 Mar-98 Mar-99	1 1 1	570 500 590	Yes Yes No	No No No	
REMARKS: 6/ COMPUTER SCIENCES CORP., FALLS CHURCH, VA										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:				P-1 Item Nomenclature:								DSCS - JAM RESISTANT SECURE COMM (JRSC) (BA8300)	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Other Related Program Elements:									
Program Elements for Code B Items:				Code:									
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	298.0	10.8	4.5	28.7	17.5	14.0	14.4	9.2	6.2	6.2		409.5	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	298.0	10.8	4.5	28.7	17.5	14.0	14.4	9.2	6.2	6.2		409.5	
Initial Spares													
Total Proc Cost	298.0	10.8	4.5	28.7	17.5	14.0	14.4	9.2	6.2	6.2		409.5	
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:** The Jam Resistant Secure Communications (JRSC) provides communications connectivity that will survive jamming and high altitude nuclear events which cause High-Altitude Electromagnetic Pulse (HEMP) and other perturbed atmospheric conditions. JRSC requirements are characterized by a combination of new and existing satellite equipments. They include: AN/GSC-52, JRSC Satellite Terminals AN/GSC-49, AN/USC-28 Spread Spectrum Multiple Access Equipment including Mitigation Modifications, the Universal Modem System (UMS), Replacement Satellite Configuration Control Element (RSCCE) and the Service Life Extension Program (SLEP). In FY99, the UMS is the only funded program. The other identified anti-jam systems have already been acquired. The UMS will enable strategic and tactical forces under the command of the U.S., U.K., France and NATO to have interoperable voice and digital data satellite communications capability under jamming and nuclear scintillation, while using non-processing transponders of the DSCS III, NATO or SKYNET 4 satellite systems.

**JUSTIFICATION:** The FY99 funds are for the acquisition of the Universal Modem System (UMS). Fifty six (56) UMS's of various configurations will be acquired in FY99.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: DSCS - JAM RESISTANT SECURE COMM (JRSC) (BA8300)			Weapon System Type:			Date: February 1998		
OPA			FY 96			FY 97			FY 98			FY 99		
Cost Elements			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
UNIVERSAL MODEM SYSTEM (UMS)														
NON-RECURRING ENG/TEST						17128	18	333						
HARDWARE						5999						8205	56	147
ENGINEERING CHANGE ORDERS						212			9845	53	186	1573		
DOCUMENTATION						2152			430			53		
PROJECT MANAGEMENT						100			25			459		
ENGINEERING SUPPORT						1434			446			1897		
SYSTEM ANALYSIS & INTEGRATION						1471			1597			1445		
TRAINING						253			1072					
FIELDING												396		
RSCCE HARDWARE									2613	5	523			
RSCCE/SLEP SOFTWARE									1471					
TOTAL UNIVERSAL MODEM SYSTEM (UMS)						28749			17499			14028		
AN/USC-28														
REPLACE AN/USC-28 MAXAL														
COMPUTERS HARDWARE														
TOTAL AN/USC-28						2914	89	33						
ENGINEERING SUPPORT						2914								
GOVERNMENT ENGINEERING						1309								
CONTRACTOR ENGINEERING						315								
TOTAL ENGINEERING SUPPORT						1624								
TOTAL JRSC						4538			17499			14028		

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature: DSCS - JAM RESISTANT SECURE COMM (JRSC) (BA8300)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
AN/USC-28 FY96	MAGNAVOX TORRANCE, CA	SS/FP	CECOM	Nov-95	Nov-96	89	33	Yes		
UNIVERSAL MODEM SYSTEM FY97	ROCKWELL-COLLINS RICHARDSON, TX	C/FP	CECOM	Feb-97	Feb-00	18	333	Yes		
UNIVERSAL MODEM SYSTEM FY98	ROCKWELL-COLLINS RICHARDSON, TX	C/FP(Opt)	CECOM	Mar-98	Jun-00	53	186	Yes		
UNIVERSAL MODEM SYSTEM FY99	ROCKWELL-COLLINS RICHARDSON, TX	C/FP(Opt)	CECOM	Mar-99	Jan-01	56	147	Yes		
RSCCE/SLEP FY98	STANFORD TELECOM COLORADO SPRINGS, CO	C/FP	CECOM	Dec-97	Jun-00	5	523	Yes		
REMARKS:										











# Exhibit P-40, Budget Item Justification Sheet

Appropriation / Budget Activity/Serial No:		Date:	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		February 1998	

P-1 Item Nomenclature:	
DSCS - OPERATIONS CONTROL SYS (DOCS) (SP (BB6509)	

Program Elements for Code B Items:				Code:		Other Related Program Elements:							
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	434.0	14.6	7.6	10.1	16.9	27.0	13.8	12.7	9.2	9.5		555.4	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	434.0	14.6	7.6	10.1	16.9	27.0	13.8	12.7	9.2	9.5		555.4	
Initial Spares													
Total Proc Cost	434.0	14.6	7.6	10.1	16.9	27.0	13.8	12.7	9.2	9.5		555.4	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION: The Defense Satellite Communications System (DSCS) Operations Control System (DOCS) provides for the management of DSCS earth terminal and satellite resources, which is required for rapid and efficient reaction to operational needs in support of the warfighter. DOCS is made up of a number of semi-automated subsystems which configure, monitor, maintain, and restore all communications links, and automatically control operations over these links. The Objective DSCS Operations Center (ODOC) will modernize the existing DOCS subsystems to provide improved satellite communications to Ground Mobile Forces and Strategic users. It will replace the existing (largely manual) control system, provide greatly enhanced responsive system control, reduce the number of personnel required, and increase overall system availability. DOCS supports control of the satellite payload, satellite communications network planning, satellite communications link performance monitoring, and control of ground satellite terminals. DOCS assures reliable satellite communications networks to support unique user mission requirements vital to national security under stressed and unstressed conditions.

JUSTIFICATION: Funding supports the ODOC Operational Requirements Document (ORD) approved by DA 31 Jan 96. FY99 funds procure the remaining Replacement Satellite Configuration Control Element (RSCCE) quantities and the Objective DSCS Operations Center (ODOC) workstations. The RSCCE is required to provide real-time monitoring and control of the DSCS III satellite platform and communications payload. The acquisition of the ODOC workstations is required for ODOC to comply with the Army Technical Architecture and the Common Operating Environment. In addition, FY99 funds procure Operational Database, DOCS Training System (DTS), and the Smart Multi-Channel Circuit Terminal (SMCT) software. Operational Databases are required for command and control of DSCS III satellites. DTS software is used to train Fort Gordon Signal School personnel on the DOCS subsystems. The SMCT software is required to provide automated message processing with archival storage capabilities for the terrestrial orderwire circuits with the earth terminals. FY99 will also fund the first Replacement BATSON (RBATSON) and Radio Frequency Interface System (RFIS) production units. RBATSON is required to provide security, authentication, and anti-jam waveform protection to satellite

<b>Exhibit P-40C Budget Item Justification Sheet</b>			Date	February 1998
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature		DSCS - OPERATIONS CONTROL SYS (DOCS) (SP (BB8509)
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				
Program Elements for Code B Items		Code	Other Related Program Elements	
<p>commands received by the RSCCE for transmission to DSCS III satellites. RFIS provides the interface connection between the DSCS Control equipment and the collocated Earth Terminal. The upgrade is required to improve operational performance, as well as adding additional ports to accommodate the Universal Modem and ODOC architecture. Finally, FY99 funds annualized engineering, matrix, system integration, and fielding support of current and prior year procurements.</p>				

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: DSCS - OPERATIONS CONTROL SYS (DOCS) (SP (B88509))			Weapon System Type:			Date: February 1998		
OPA			FY 96			FY 97			FY 98			FY 99		
Cost Elements			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Hardware														
DIMS			1521	5	304		13	77		6	497		6	506
DOSS RACKS														186
RSCCE														385
RBATSON														
ODOC WORKSTATION														
DFCS UPGRADE														
RFIS														
Engineering Changes (DIMS/RSCCE)			1076											2907
Software			656											
Systems Integration			697											
Engineering Support			843											
Contractor Engineering			1763											
Government Engineering														
Documentation			34											
Fielding			734											
Project Management Administration			290											
TOTAL			7614			10140			16896			26966		











Exhibit P-40, Budget Item Justification Sheet												February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		DSCS - MOD OF IN-SVC EQUIP (SPACE) (BB8416)										
Program Elements for Code B Items:		Other Related Program Elements:										
Code:		Code:										
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty												
Gross Cost	184.7	45.7	39.4	33.5	31.8	22.3	33.1	31.7	29.4		485.1	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	184.7	45.7	39.4	33.5	31.8	22.3	33.1	31.7	29.4		485.1	
Initial Spares												
Total Proc Cost	184.7	45.7	39.4	33.5	31.8	22.3	33.1	31.7	29.4		485.1	
Flyaway U/C												
Wpn Sys Proc U/C												

**DESCRIPTION:** These modifications will modernize the aging heavy terminals (HT), medium terminals (MT) so that all Defense Satellite Communications System (DSCS) Super High Frequency (SHF) strategic earth terminals use common electronics and logistics support. The result will extend the life of the terminals, increase readiness, reduce training and logistics support, conserve energy and improve maintainability. In addition, a modernization effort is planned for the AN/GSC-52 System which will eliminate system obsolescence, modernize existing equipment and provide component commonality with other existing strategic terminals.

**JUSTIFICATION:** FY99 funds are required to continue the installation/fielding of the HT/MT modification work order (MWO) kits. FY99 funds are also required to procure the first option for the AN/GSC-52 installation kits and complete the acquisition of AN/GSC-52 vans and AN/GSC-52 components that are common to the other DSCS satellite terminals.

## Exhibit P-40M Budget Item Justification Sheet

Date \_\_\_\_\_

February 1998

**Appropriation / Budget Activity/Serial No.**

**P-1 Item Nomenclature**

## OTHER PROCUREMENT / 2 / Communications and Electronics Equipment

DSCS - MOD OF IN-SVC EQUIP (SPACE) (BB8416)

### Program Elements for Code B Items

Code

### Other Related Program Elements

Description

Fiscal Years

OSIP NO.	Classification
----------	----------------

[illegible]

## AN/GSC-52 Modernization

1-89-07-0030

0.0

## 20.3

26.9

28.4

22.

33

3

2

192.2

# Terminal Modernization

1-89-07-0005

394

132

“

3.

C

C

1

626

Totals

### 39.4

33.5

### 33.5

31.813

22.

33

3

2

254.8

INDIVIDUAL MODIFICATION												Date	February 1998																																																																																														
MODIFICATION TITLE: AN/GSC-52 Modernization 1-89-07-0030																																																																																																											
MODELS OF SYSTEMS AFFECTED: AN/GSC-52 Modernization																																																																																																											
DESCRIPTION / JUSTIFICATION:																																																																																																											
<p>The modernization effort of the AN/GSC-52 System will eliminate obsolescence, modernize the existing equipment and provide commonality with other existing terminals. The acquisition strategy consists of a two contract approach. In FY97, components which are common to the AN/GSC-39 and AN/FSC-78/79 terminals were purchased from an existing contractual vehicle as a cost effective means to insure component commonality for these DSCS Terminals. Another contract will be awarded in FY98 for the production of installation kits and installation of the AN/GSC-52 hardware. The guidance was directed by DISA DSCS Program Plan FY93-98, dated January 1994. FY98 funds are required to begin procuring the installation kits and software for the AN/GSC-52 Modernization effort. FY99 funds continue the acquisition of AN/GSC-52 installation kits and complete the procurement of common components.</p>																																																																																																											
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:																																																																																																											
FY99 funds are required to continue the acquisition of AN/GSC-52 installation kits and complete the acquisition of common components.																																																																																																											
Installation Schedule:																																																																																																											
Pr Yr	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001																																																																																										
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4																																																																																							
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4																																																																																							
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INDIVIDUAL MODIFICATION																	Date		February 1998	
MODIFICATION TITLE (Cont): AN/GSC-52 Modernization 1-89-07-0030																				
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT																				
AN/GSC-52 Mod Hardware																				
Other Hardware	39	18.9																	39	18.9
Vans					2	0.6										0.9				8.1
Restoral Terminals					1	0.2	10	0.8	6	0.5	10	0.9	2	0.2					30	2.6
Installation Kits (recurring)					3	1.3	3	4.0											4	5.3
Installation Kits (nonrecurring)					3	2.3	8	6.0	8	6.0	10	7.5	6	4.5	4	3.0			39	29.3
Antenna Modernization						5.9														5.9
Engineering Change Orders						0.4		1.1		1.1		1.4		0.9		0.6				5.5
Data/Documentation						1.2		4.5		5.0		5.0		5.0		4.0				24.7
Testing						3.2		0.4		0.2		0.2		0.2		0.2				4.4
Training						1.6						0.1		0.4		0.9				3.0
Total Package Fielding										0.2		0.3		0.4		0.3				1.2
Interim Contractor Support										0.1		0.2		0.5		0.7				1.5
Project Mgmt Admin												0.3		1.3		3.9				5.5
Government Support								0.3		0.3		0.3		0.3		0.3				1.9
Software Development/PDSS								1.3		1.0		0.9		0.8		0.5				7.0
Other DSCS Term Hardware								8.1		1.3		1.3		1.3		1.3				13.3
Taxes								0.6		5.1		11.4		11.0		5.6				41.5
Total Procurement Costs																				0.6
FY98						26.9		28.4		22.4		31.9		28.1		22.2			112	180.2
FY99											2	1.2	1	0.6					3	1.8
FY00													5	3.0	3	1.8			8	4.8
FY01															8	4.8			8	4.8
FY02															1	0.6			1	0.6
FY03																				
Total Installment											2	1.2	6	3.6	12	7.2			20	12.0
Total Procurement Cost						26.9		28.4		22.4		33.1		31.7		29.4			132	192.2

<b>INDIVIDUAL MODIFICATION</b>										Date	February 1998																																																																																																																																																																																			
<b>MODIFICATION TITLE:</b> Terminal Modernization 1-89-07-0005																																																																																																																																																																																														
<b>MODELS OF SYSTEMS AFFECTED:</b> AN/FSC-78/79, AN/GSC-39, and AN/TSC-86																																																																																																																																																																																														
<b>DESCRIPTION / JUSTIFICATION:</b> <p>The AN/FSC-78/79 Heavy Terminal (HT), AN/GSC-39 Medium Term (MT) began operation in the mid-70's &amp; have surpassed their 15 year design life. The original systems were fielded with a required Mean Time Between Failures (MTBF) of 1,000 hours. Due to aging, the MTBF degraded significantly. The Terminal Mod program will eliminate system obsolescence and enable the terminals to achieve the required 1,000 hours MTBF. The contract was awarded in Mar 92 for this modernization effort, which will provide for upgrading of aging electronics in HT/MT satellite earth terminals so all Defense Satellite Communications Systems (DSCS) Super High Frequency (SHF) strategic earth terminals will use common electronics &amp; logistics support. The result will extend the life of the terminals for another 15 years, enhance operational readiness, reduce training &amp; logistics support, conserve energy &amp; improve maintainability. This Tri-Service DOD Program was approved in the FY91-95 DSCS Program Plan, Jun 89. FY99 funds are required to complete installation/fielding of the Terminal Mod Program.</p>																																																																																																																																																																																														
<b>DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:</b>  <p>No development required.</p>																																																																																																																																																																																														
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INDIVIDUAL MODIFICATION													
Date February 1998													
MODIFICATION TITLE (Cont):													
Terminal Modernization 1-89-07-0005													
FINANCIAL PLAN: (\$ in Millions)													
	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		TOTAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty
Reprogram to Higher Army Priorities		3.4											3.4
PROCUREMENT													
Equipment		126.1		5.1									131.2
Equipment (nonrecurring)		16.7											16.7
Installation Kits (recurring)	52	8.7											52
Installation Kits (nonrecurring)		5.4											8.7
Engineering Change Orders		7.4											5.4
Data		12.2											7.4
Training Equipment		2.6											12.2
Support Equipment		0.3											2.6
GFE		6.3											0.3
Project Mgt Admin		3.0											6.3
Fielding		2.8											4.3
Interim Contractor Support		5.9											3.6
Gov't/Contr Support		14.6											7.5
Installation of Hardware													17.2
FY 1996 & Prior Eqpt -- Kits	24	14.8	12	5.6	14	4.2	2	2.0					52
FY 1997 Eqpt -- Kits													26.6
FY 1998 Eqpt -- Kits													
FY 1999 Eqpt -- Kits													
FY 2000 Eqpt -- kits													
FY 2001 Eqpt -- kits													
FY 2002 Eqpt -- kits													
FY 2003 Eqpt -- kits													
(FY(TC) Eqpt (xx kits)													
Total Installation	24	14.8	12	5.6	14	4.2	2	2.0					52
Total Procurement Cost		230.2		13.2		6.6		3.4					253.4

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										SHF TERM (BA9350)	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment													
Program Elements for Code B Items:		Other Related Program Elements:											
Code:		A											
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog		
Proc Qty													
Gross Cost			13.3	13.9	25.3	30.0	60.1	70.0	44.1	37.6	294.3		
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)			13.3	13.9	25.3	30.0	60.1	70.0	44.1	37.6	294.3		
Initial Spares													
Total Proc Cost			13.3	13.9	25.3	30.0	60.1	70.0	44.1	37.6	294.3		
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION: Super High Frequency (SHF) Tri-Band Advanced Range Extension Terminal (STAR-T) is a Heavy High Mobility Multi-purpose Wheeled Vehicle (HMMWV) mounted, multi-channel Tactical Satellite Terminal (TACSAT). It has a tri-band capability in the Super High Frequency (SHF) range and will operate over commercial and military SHF satellites. Selected terminals will also have an integrated switch that will interface with both commercial and joint military switching systems. The STAR-T is being procured by the USMC and the Joint Communications Support Element (JCSE) and will replace the current TSC-85 and TSC-93 SHF multi-channel TACSAT terminals.

JUSTIFICATION: FY-99 funds will procure eleven STAR-T terminals. This program will replace the aging fleet of AN/TSC-85/93 terminals by providing tri-band communications capability for split based operations. The AN/TSC-85/93 terminals cannot meet the transportability and deployability requirements of a force projection Army, nor can they exploit commercial space as mandated by OSD. Prolonging the life of these terminals would result in rapidly escalating maintenance costs which negatively impact upon the O&M budget. The STAR-T will selectively replace all Ground Mobile Forces (GMF) terminals at Echelons Above Corps (EAC).

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: SHF TERM (BA9350)			Weapon System Type:			Date: February 1998		
OPA			FY 96			FY 97			FY 98			FY 99		
Cost Elements			TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
HARDWARE*						5606	5	1121	4178	7	597	6656	11	605
GFE						436			3204			7457		
ECP						4200			3531			1990		
CONTRACTOR ENGINEERING						488			805			1431		
GOVERNMENT ENGINEERING						681			732			1054		
GOVERNMENT PROGRAM MGMT						744			472			784		
DATA						332			98			420		
TEST									650			777		
INTEGRATION						389			135			3530		
FIELDING						104			102			966		
SUPPORT EQUIPMENT						280						263		
TOTAL						13260			13907			25328		
*Unit costs vary due to different configurations and complements of ancillary equipment														



Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998	
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature:						
WBS Cost Elements: Fiscal Years		Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
HARDWARE FY1997		RAYTHEON COMPANY MARLBOROUGH, MA	FFP/OPT	CECOM	Feb-97	Mar-98	5	1121	YES		
FY1998		RAYTHEON COMPANY MARLBOROUGH, MA	FFP/OPT	CECOM	Mar-98	Nov-98	7	597	YES		
FY1999		RAYTHEON COMPANY MARLBOROUGH, MA	FFP/OPT	CECOM	Mar-99	Nov-99	11	605	YES		
<b>REMARKS:</b> The STAR-T is a fixed price option to the Special Operations Forces Tactical Assured Connectivity System (SOFTACS) Tri-Band Terminal contract which was awarded in August 1996. Unit costs vary due to different configurations and complements of ancillary equipment.											





Exhibit P-40, Budget Item Justification Sheet												
Appropriation / Budget Activity/Serial No:										Date:		
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										February 1998		
P-1 Item Nomenclature:										SAT TERM, EMUT (SPACE) (K77200)		
Program Elements for Code B Items:										Other Related Program Elements:		
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	755		666	749	105							2275
Gross Cost	20.0	15.1	17.0	18.5	6.3	2.5	0.7	0.0	0.0	0.0	0.0	80.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	20.0	15.1	17.0	18.5	6.3	2.5	0.7	0.0	0.0	0.0	0.0	80.1
Initial Spares												
Total Proc Cost	20.0	15.1	17.0	18.5	6.3	2.5	0.7	0.0	0.0	0.0	0.0	80.1
Flyaway U/C												
Wpn Sys Proc U/C												

**DESCRIPTION:** The Enhanced Manpack UHF Terminal (SPITFIRE) program replaces the existing inventory of single channel SATCOM radios to add Communications Security (COMSEC), and Demand Assigned Multiple Access (DAMA) capability to support all DoD, Special Operations Forces (SOF) and other Agencies. Joint Staff (JS) has mandated that all UHF satellite manpack terminals be secure and have DAMA capability. No other DoD manpack terminals possess the UHF DAMA capability, which allows more efficient use of limited satellite resources.

**JUSTIFICATION:** The FY99 funds will field SPITFIRE prior year procurements.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: SAT TERM, EMUT (SPACE) (K77200)			Weapon System Type:			Date: February 1998		
ID	CD	OPA Cost Elements	FY 96			FY 97			FY 98			FY 99		
			TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
A		Hardware	13279	666	20	15225	754*	VAR	2854	105	27			
		Engineering Support												
		Contractor Engineering	812			678			500			456		
		Government Engineering	1277			963			980			748		
		Government Program Mgmt				210			367			270		
		ECP's	270			330								
		Test	998			113								
		Vehicular Power Adapters and Amplifiers				349								
		Fielding	316			652			1573			1011		
		TOTAL	16952			18520			6274			2485		

\* Quantity has been adjusted to reflect  
current program planning

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998	
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics			Weapon System Type:		P-1 Line Item Nomenclature: SAT TERM, EMUT (SPACE) (K77200)						
WBS Cost Elements: Fiscal Years		Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Hardware											
FY 95		Magnavox Elec, Ft. Wayne, IN	FFP/Opt	CECOM	Apr-95	Jul-97	597	20			
FY 96		Magnavox Elec, Ft. Wayne, IN	FFP/Opt	CECOM	Jun-96	Apr-98	666	20			
FY 97		Hughes Defense, Ft. Wayne, IN	FFP/Opt	CECOM	Jun-97	Dec-98	754	20			
FY 98		Hughes Defense, Ft. Wayne, IN	FFP/Opt	CECOM	Mar-98	Aug-99	105	27			
<b>REMARKS:</b> The increase in the FY98 unit cost is a result of low quantity on a range quantity contract. Magnavox Electronics purchased by Hughes Defense Corp, has now been purchased by the Raytheon Company.											









Exhibit P-40, Budget Item Justification Sheet												
Appropriation / Budget Activity/Serial No:		Date: February 1998										
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Item Nomenclature: NAVSTAR GLOBAL POSITIONING SYSTEM (SPACE (K47800))										
Program Elements for Code B Items:		Other Related Program Elements:										
		Code:										
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	25546		2112	12017	17	14	14	7019	7120	12519		66378
Gross Cost	117.7	32.0	48.5	26.1	5.4	6.9	6.7	32.2	32.6	49.8	270.0	627.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	117.7	32.0	48.5	26.1	5.4	6.9	6.7	32.2	32.6	49.8	270.0	627.9
Initial Spares												
Total Proc Cost	117.7	32.0	48.5	26.1	5.4	6.9	6.7	32.2	32.6	49.8	270.0	627.9
Flyaway U/C												
Wpn Sys Proc U/C												

**DESCRIPTION:**

The Navstar Global Positioning System (GPS) is a passive space based radio positioning and navigation system that provides position, velocity and time information to a user in three dimensions to 16 meters Spherical Error Probable (SEP). GPS User Equipment (UE) is a family of receivers that meet DoD requirements for Selective Availability and Anti-Spoofing, provides the users with Precise Positioning Service (PPS), and is designed to accommodate the differing dynamic user environments to include handheld as well as host platforms. The Army acquisition strategy is to procure a mix of Non-Developmental Item (NDI) equipment that will satisfy all user/platform requirements while enforcing standardization in accordance with DoD policy. Current Army GPS UE includes the Miniaturized Airborne GPS Receiver (MAGR), (a NDI 5-channel set for Signal Warfare aircraft); the Precision Lightweight GPS Receiver (PLGR), (a NDI receiver for ground users and host vehicles); and the NDI Stand Alone Air GPS Receiver (SAGR) and the Cargo Utility GPS Receiver (CUGR), (satisfy Army requirements for low dynamic Army aviation in the non-modernized fleet). Future Army GPS UE will include the Defense Advanced GPS Receiver (DAGR) (handheld); GPS Receiver Applications Module (GRAM) (embedded); and GPS/Inertial Navigation System (GPS/INS) (GPS with INS back-up). This new UE is scheduled for fielding to the Army during the FY01-FY06 timeframe and will include significant anti-jam and anti-spoof capabilities as a result of the ongoing Navigation Warfare (NAVWAR) Program.

**JUSTIFICATION:**

The FY-99 program will sustain the Product Manager's administrative cost, upgrade PLGR software, continue to field receivers. It will also allow for participation in the joint service effort to enhance GPS receiver anti-jam and anti-spoof capabilities under the Navigation Warfare (NAVWAR) Program; to modernize GPS as a dual use technology; and to initiate procurement of the Defense Advanced GPS Receiver (DAGR). The FY-99 program will also allow for integration efforts for Army MAGR requirements.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: NAVSTAR GLOBAL POSITIONING SYSTEM (SPACE (K47800))		Weapon System Type:		Date: February 1998		
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99		
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
Hardware:										
1. Aircraft MAGR		219	12	18	1350	74	18			
2. Ground PLGR		23266	20780	1	15330	15000	1			
3. SAGR		600	200	3						
4. CUGR		14400	785	18						
PLGR Software Upgrade										
AWE Support										
Engineering Support:										
Service Support Contracts		2240			2000			1750		1848
Government In-House		1661			1950			1800		1086
Integration Engineering		375			200					365
Test and Evaluation (DAGR)										
Engineering Change Orders										
Documentation		175			2100					425
Total Package Fielding										
Technical/Logistics Support		475			400			342		300
Program Management Administration										
GPS VTXI		2100			1800			1300		1300
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Exhibit P-5a, Budget Procurement History and Planning												Date:
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:			P-1 Line Item Nomenclature: NAVSTAR GLOBAL POSITIONING SYSTEM (SPACE (K47800))					February 1998
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Hardware:												
1. Aircraft MAGR FY 96		Rockwell Collins, Cedar Rapids, Iowa		C/FPI/Opt	USAF, Los Angeles AFB	Mar-96	Jun-97	12	18	Yes		
FY 97		Rockwell Collins, Cedar Rapids, Iowa		C/FPI/Opt	USAF, Los Angeles AFB	Mar-97	Jun-98	74	18	Yes		
2. Ground PLGR FY 96		Rockwell Int'l, Cedar Rapids, IA		C/FFP/Opt	USAF, Los Angeles AFB	Mar-96	Sep-96	20780	1	Yes		
FY 97		Rockwell Int'l, Cedar Rapids, IA		C/FFP/Opt	USAF, Los Angeles AFB	Mar-97	Sep-97	15000	1	Yes		
3. SAGR FY 96		Trimble Nav, Sunnyvale, CA		SS/FFP	USA CECOM, Fort Monmouth, NJ	Apr-96	Jul-96	200	3	Yes		
4. CUGR FY 96		Trimble Nav, Austin, TX		C/FFP	USA CECOM, Fort Monmouth, NJ	Sep-96	Dec-97	785	18	Yes		
REMARKS:												





Exhibit P-40, Budget Item Justification Sheet												
Appropriation / Budget Activity/Serial No:				Date:				February 1998				
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Item Nomenclature:				GROUND COMMAND POST (BC4001)				
Program Elements for Code B Items:				Code:				Other Related Program Elements:				
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	5.9	0.8	0.7	0.6							8.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)		5.9	0.8	0.7	0.6							8.0
Initial Spares												
Total Proc Cost	0.0	5.9	0.8	0.7	0.6							8.0
Flyaway U/C												
Wpn Sys Proc U/C												

**DESCRIPTION:**

Milstar Ground Command Post Terminals (GNDCP) - AN/FRC-181(V1) (fixed) and AN/TRC-194(V1) (transportable) terminals provide survivable, worldwide two-way anti-jam, and enduring voice and data communications. The Extremely High Frequency/Ultra High Frequency (EHF/UHF) command post terminals are designed for use with communications satellites which provide the next generation military satellite communications systems. GNDCP terminals are designed for high capacity command post operation to include a mission control segment interface, emergency action message dissemination, force direction, CINCNET operations, and full beam management. A contract for the remaining terminals was awarded in May 93 by the USAF. These terminals will be deployed for command, control, and special user missions, and will be operated and maintained by the Army. A total of seven (7) terminals were procured by the USAF for the Army and will be integrated into the Army Force Structure.

**JUSTIFICATION:**

Delivery of the US Air Force procured terminals to the Army for integration into the Army force structure began in Nov 93. The first Army terminal (Fort McPherson, GA) was accepted by the Army for operation in Feb 95. This project has been synchronized with and is in support of the Milstar Low Data Rate (LDR) spacecraft launches. The FY98 funds will be utilized for Total Package Fielding (procurement of support items, special tools, repair parts, GFE, and generators) for fielding the SHAPE, BE terminal. This terminal will be operated and maintained by Army personnel to support CINC and NCA missions. There are no FY99 funds.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: GROUND COMMAND POST (BC4001)			Weapon System Type:			Date: February 1998				
ID	OPA Cost Elements	CD	FY 96		FY 97		FY 98		FY 99		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each						
	Total Package Fielding		392			340					297					
	Modifications		75			70					53					
	In-House Costs & Fielding Support		289			297					222					
	TOTAL		756			707					572					



Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												SMART-T (SPACE) (BC4002)	
Program Elements for Code B Items:												Other Related Program Elements:	
0303142A												Code: B	
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog		
Proc Qty													
Gross Cost		51.4	33.1	22.2	57.7	63.0	43.2	15.6	10.7	8.5	305.5		
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)		51.4	33.1	22.2	57.7	63.0	43.2	15.6	10.7	8.5	305.5		
Initial Spares			1.6	1.0	1.4	0.0	2.8	2.6	2.0	1.1	12.4		
Total Proc Cost		51.4	34.7	23.3	59.2	63.0	46.0	18.2	12.6	9.5	317.9		
Fltway U/C		2.0	1.3	N/A	1.1	0.7	0.9						
Wpn Sys Proc U/C		2.6	1.4	N/A	1.3	0.8	1.0						

**DESCRIPTION:**

SMART-T is a multi-channel satellite terminal required to support a Force Projection Army. It will provide range extension capability to the Army's Mobile Subscriber Equipment (MSE), a critical requirement demonstrated during Operation Desert Storm. Specifically, SMART-T will provide a satellite interface to permit uninterrupted voice/data communications as our advancing forces move beyond the MSE Line of Sight capability. These terminals will triple the battlefield capability with respect to Command, Control and Communications. SMART-T will provide connectivity between selected MSE Node Centers (NC), Large Extension Nodes (LEN), Small Extension Nodes (SEN), and Remote Radio Access Units (RAU), to support Echelons Corps and Below as well as Special Contingency Operations, and communicate with other service Milstar terminals. It will transmit in Extremely High Frequency (EHF) band and will receive in Super High Frequency (SHF) band. The terminal will operate at both Medium Data Rate (MDR) and Low Data Rate (LDR). It will be capable of unattended operation. SMART-T will have the inherent capability of low probability of interception and low probability of detection (LPI/LPD) to avoid being targeted for destruction, jamming, or eavesdropping. SMART-T is interoperable with all other Milstar terminals and is interoperable with Milstar, Navy UHF Follow-on and any MIL-STD-1582 B/C compatible payloads.

**JUSTIFICATION:**

FY99 funds procure 45 Full Rate Production (FRP) terminals and associated failure-free warranty for the US Army; completes Total Package Fielding of Low Rate Initial Production (LRIP) terminals to US Army; procures contractor logistics, fielding and training support services; conducts Milstar Intersegment Tests and completes Reliability Growth Test (RGT); installs and achieves operational capability of interactive training device at resident school facilities.

The SMART-T acquisition strategy was developed to optimize the fullest on-orbit capability of the Milstar Medium Data Rate (MDR) payload. The SMART-T will be the only fielded Milstar MDR capable terminal at the time of satellite launch.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: SMART-T (SPACE) (BC4002)				Weapon System Type:		Date: February 1998	
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99					
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
SMART-T Contract Terminal Cost Engineering Support Data System Project Mgmt/Gov't System Test & Evaluation GFE Fielding  TOTAL	B		27488	20	1374	20567	23	894	7884			41644	45	925
			753			3640			3240			3369		
			1674			57						102		
			5970			7446			6387			6395		
			3988			1040			3675			2916		
			1886			362			1051			494		
												2823		
			41759			33112			22237			57743		
NOTES:														
1. Contract Terminal Cost element includes recurring & non-recurring costs and contractor Systems Project Mgmt. Costs are higher in FY96 as non-recurring costs are paid in the first year of the fixed price contract.														
2. LRIP/FSP contract awarded 7 Feb 96 to Raytheon Co (Marlborough, MA). FY96/97 Contract costs were less than estimated. FY96 savings used to offset critical PEO C3S shortfalls.														
GRAND TOTAL			51429											

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998		
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics			Weapon System Type:		P-1 Line Item Nomenclature: SMART-T (SPACE) (BC4002)							
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
SMART-T		Raytheon Co., Marlborough, MA		C/FP	CECOM	Feb-96	Mar-98	20	1374	Yes		
FY 96		Raytheon Co., Marlborough, MA		C/FP/OPT	CECOM	Dec-96	Dec-98	23	894	Yes		
FY 97		Raytheon Co., Marlborough, MA		C/FP/OPT	CECOM	Oct-98	Apr-00	45	925	Yes		
FY 99												

<b>REMARKS:</b> 1) FY 96 & FY 97 - LRIP 2) PB 98 procures 313 Joint Service requirements: - Army = 209 - USAF = 73 - JCSE = 6 - USMC = 25 313	3) No terminals procured in FY98; funds procure contractor time and material support of fielding, logistics test support, and training activities.
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Exhibit P-40, Budget Item Justification Sheet											Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		SCAMP (SPACE) (BC-4003)										
Program Elements for Code B Items:		Other Related Program Elements:										
0303142A		Code: B										
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty												
Gross Cost		20.1	14.4	16.5	4.7	1.7	1.6	0.5	0.2		59.7	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)		20.1	14.4	16.5	4.7	1.7	1.6	0.5	0.2		59.7	
Initial Spares												
Total Proc Cost		20.1	14.4	16.5	4.7	1.7	1.6	0.5	0.2		59.7	
Flyaway U/C												
Wpn Sys Proc U/C												

The SCAMP BLK I Terminal will provide a manportable, four simultaneous channel, full duplex data/half duplex voice communications and data transfer system at 2400 bps each. These satellite terminals are to be employed by units that require range extension for command and control communications. Block I will provide priority tactical ground users with the capability to transmit and receive intelligence, command, and control traffic from a base station. It will transmit in the Extremely High Frequency (EHF) band and receive in the Super High Frequency (SHF) band. It will provide Low Data Rate (LDR) secure voice at 2400 bps and secure data at 75-2400 bps, as well as interface with Common Hardware/Software devices such as the Lightweight Computer Units and the Hand-Held Terminal Unit. The SCAMP BLK I will be fully interoperable within the Army C4I Technical Architecture. The terminal will have embedded COMSEC and TRANSEC with set-up and tear-down in less than 10 minutes. In addition to operation on Milstar satellites, the SCAMP BLK I will operate on all satellites which utilize the MIL-STD-1582C/D LDR waveform. It will be required to operate in environmental conditions that include smoke, aerosol, rain, fog, snow, haze and dust, and must operate in the transmit, receive or stand-by mode throughout an entire mission (typically 30 days). SCAMP BLK I is the first EHF manportable terminal and provides direct support to the tactical warfighter mobile forces with greater anti-jam protection, lower probability of intercept, and lower probability of detection.

**JUSTIFICATION:**  
FY99 funds Total Package Fielding (TPF) of 93 Army Block I terminals procured in FY97, supports Joint Intersegment and Warfighter Interoperability Tests and incorporates modifications. Army Block I terminals are designated for Commanders at Division and Above levels. The DoD successfully launched two Milstar LDR EHF frequency waveband satellites in Feb 94 and Nov 95. SCAMP Block I provides manportable EHF/LDR communications in support of the on-orbit satellites.



Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: SCAMP (SPACE) (BC4003)			Weapon System Type:			Date: February 1998		
OPA Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
B		Contract Terminal Cost	11144	57	196	7239	93	78	8389	196	43	1333		
		Engineering Support	1757			1973			2543			656		
		System Project Mgmt Gov't	3495			2075			1412					
		System Engineering	740											
		System Test	1434			63			1410			298		
		Training	89			10								
		Data	886											
		Fielding	512			2996			2760			2421		
		TOTAL	20057			14356			16514			4708		

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature: SCAMP (SPACE) (BC4003)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Hardware										
FY 96	Rockwell Collins, Richardson, TX	C/FP	CECOM	Feb-96	Jul-98	57	196	Yes		
FY 97	Rockwell Collins, Richardson, TX	C/FP	CECOM	Dec-96	Dec-98	93	78	Yes		
FY 98	Rockwell Collins, Richardson, TX	C/FP	CECOM	Jan-98	Dec-99	196	43	Yes		
<b>REMARKS:</b> Multi-Service Procurement of a total of 514 SCAMP BLK I - Army = 346 - USAF = 154 - JCSE = 8 - Army INSCOM = 6										







# Exhibit P-40, Budget Item Justification Sheet

Appropriation / Budget Activity/Serial No:		Date: February 1998	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Item Nomenclature: GLOBAL BROADCAST SVC - GBS (BC4120)	

Program Elements for Code B Items:		Code: A		Other Related Program Elements:									
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost					9.8	5.9	11.1	9.6	8.7	1.4	30.7	77.2	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)					9.8	5.9	11.1	9.6	8.7	1.4	30.7	77.2	
Initial Spares													
Total Proc Cost					9.8	5.9	11.1	9.6	8.7	1.4	30.7	77.2	
Flyaway U/C													
Wpn Sys Proc U/C													

## DESCRIPTION:

Global Broadcast Service (GBS) is a joint service program that responds to the need for a continuous, high-speed, one-way broadcast of high volume multi-media information such as imagery, maps, weather data, logistics, air tasking orders, etc., to users worldwide. GBS is an integral part of the Defense Information Infrastructure (DII) and a part of the overall DoD Milsatcom architecture. The DoD GBS initiative was formalized by a Joint Acquisition Decision Memorandum, 27 Mar 96. The Army will be the GBS Joint Project Office's (JPO) Product Lead for the Fixed Receive Suites (FRS) and Transportable Receive Suites (TRS) acquisition for all users.

The GBS Receive Suites consist of a small satellite tracking and receiving antenna which receives and demodulates the RF downlink signal into a bit stream for receive broadcast management computer to decrypt and distribute to end users. An in-theater injection capability via Theater Injection Points (TIPs) will be designed to broadcast vital Commander in Chief (CINC)/ Commander Joint Task Force (CJTF) in-theater information to in-theater receive suites.

The Phase II GBS Program will take maximum advantage of existing technology and satellite capability. A competitive, best value contract was awarded Nov 97 which will leverage commercial items.

## JUSTIFICATION:

FY 99 funds will procure 32 Transportable Receive Suites. The need for the GBS communication system was validated by the Joint Requirements Oversight Committee (JROC) in a Joint Mission Need Statement, dtd 3 Aug 95, and Joint Operational Requirements Document, dated 7 Apr 97. The GBS Phase II concept was validated by use of a GBS Phase I demonstration system in support of the Bosnia peace mission and Joint Warfighting Interoperability Demonstration (JWID) 95.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: GLOBAL BRDCST SVC - GBS (BC4120)			Weapon System Type:		Date: February 1998		
ID	OPA Cost Elements	CD	FY 96		FY 97		FY 98		FY 99		UnitCost \$000	UnitCost \$000	
			TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each			
	Receive Suite (H/W, SW) TRS Config 3										651	5	130
	TRS Config 2										1611	27	60
	Transmit Suite												
	Theater Injection Pt. (TIP) (HW/SW)						2953	1	2953				
	Engineering						2236						
	Fielding										679		
	Test										274		
	Data, Logistics, Training										1721		
	ECO's						515				224		
	Joint In-Theater Injector Upgrade										713		
	TOTAL						9821				5873		

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: GLOBAL BRDCST SVC - GBS (BC4120)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Transmit Suites (FY 98) TIP	Raytheon, Reston, VA	CPAF/OPT	USAF GBS JPO LA, CA	Feb-98	Jul-99	1	2953	YES		
Receive Suite (H/W, S/W) (FY 99) TRS Config 3 TRS Config 2	Raytheon, Reston, VA Raytheon, Reston, VA	CPAF/OPT CPAF/OPT	GBS, JPO LA, CA GBS, JPO LA, CA	Nov-98 Nov-98	Sep-99 Sep-99	5 27	130 60	YES YES		
<b>REMARKS:</b> <ol style="list-style-type: none"> <li>1. Army is procuring Theater Injection Points (FY98 Option) and Receive Suites (FY99 Option) via AF Contract awarded Nov 97.</li> <li>2. TRS - Transportable Receive Suites</li> <li>3. TIP - Theater Injection Point</li> </ol>										







Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										MOD OF IN-SVC EQUIP (TAC SAT) (BB8417)	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Other Related Program Elements:											
Program Elements for Code B Items:		Code:											
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty		4	20	20								44	
Gross Cost	237.3	4.9	9.5	5.4	2.0	1.5	0.0	0.0	0.0	0.0	0.0	260.7	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	237.3	4.9	9.5	5.4	2.0	1.5	0.0	0.0	0.0	0.0	0.0	260.7	
Initial Spares													
Total Proc Cost	237.3	4.9	9.5	5.4	2.0	1.5	0.0	0.0	0.0	0.0	0.0	260.7	
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:** This program will provide a tactical satellite communications capability to meet critical Ground Mobile Forces (GMF) Command, Control and Communication (C3) needs not satisfied by conventional terrestrial communications systems. The (GMF) are those components of the Army, Navy, Air Force, Marine Corps, Special Operations Forces and Joint Communications Support Element engaged in land, tactical air combat and amphibious operations ranging from single-service crisis missions to mutually supportive joint-service combat scenarios. Mod Of In-Svc Equipment (TACSAT) funds the upgrades to Army tactical satellite communications equipment.

**JUSTIFICATION:** The FY 99 funds will be used to manage and field prior year procurements of Lightweight High Gain X-Band Antennas (LHGXA). This program will allow the warfighter access to the Defense Satellite Communications System in support of reach-back communications requirements for power projection. This is in line with the continued upgrades of Army tactical satellite communications equipment.

## Exhibit P-40M Budget Item Justification Sheet

Date \_\_\_\_\_

February 1998

**Appropriation / Budget Activity/Serial No.**

**P-1 Item Nomenclature**

## OTHER PROCUREMENT / 2 / Communications and Electronics Equipment

MOD OF IN-SVC EQUIP (TAC SAT) (BB8417)

### Program Elements for Code B Items

Code

### Other Related Program Elements

Description

Fiscal Years

OSIP NO.

### Classification

Total

Multi-Channel Initial System (MCIS)

1-84-07-0019  
Operational

233

Totals

23.3

INDIVIDUAL MODIFICATION																			
Date												February 1998							
<b>MODIFICATION TITLE:</b> Multi-Channel Initial System (MCIS) 1-84-07-0019																			
<b>MODELS OF SYSTEMS AFFECTED:</b> N/A																			
<b>DESCRIPTION / JUSTIFICATION:</b> Installation of antennas not required.																			
<b>NOTE:</b> Page 2 of P3a FY 96 and prior shows funding only for LHGXA. Dollars for cancelled AJ program are not included.																			
<b>DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:</b> N/A																			
As a result of contractor claim, the FY 97 award has been delayed to March 1998.																			
<b>Installation Schedule:</b>																			
Inputs Outputs	Pr Yr	FY 1997				FY 1998				FY 1999				FY 2000			FY 2001		
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Inputs Outputs	FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007		FY 2008		FY 2009		FY 2010		
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	
Totals																			
<b>METHOD OF IMPLEMENTATION:</b>																			
<b>Contract Dates:</b>					<b>ADMINISTRATIVE LEADTIME:</b> 6 Months					<b>PRODUCTION LEADTIME:</b> 20 Months									
<b>Delivery Date:</b>					<b>FY 1997</b> Mar-98					<b>FY 1998</b> Oct-98									
					<b>FY 1999</b>					<b>FY 2000</b>									

INDIVIDUAL MODIFICATION																			
Date																			
February 1998																			
Multi-Channel Initial System (MCIS) 1-84-07-0019																			
FINANCIAL PLAN: (\$ in Millions)																			
FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
24		20																44	
RDT&E																			
PROCUREMENT																			
Kit Quantity																			
Installation Kits																			
Installation Kits, Nonrecurring Equipment			4.8		3.2														8.0
Equipment, Nonrecurring			3.1																3.1
Engineering Change Orders																			
Data			0.4																0.4
Training Equipment			0.7		0.4														1.1
Support Equipment			1.5		0.4		0.4		0.3										2.6
Other			0.1		0.6		0.8		0.6										2.1
Interim Contractor Support			3.8		0.8		0.8		0.6										6.0
Installation of Hardware																			
FY 1996 & Prior Eqpt -- Kits																			
FY 1997 Eqpt -- Kits																			
FY 1998 Eqpt -- Kits																			
FY 1999 Eqpt -- Kits																			
FY 2000 Eqpt -- kits																			
FY 2001 Eqpt -- kits																			
FY 2002 Eqpt -- kits																			
FY 2003 Eqpt -- kits																			
TC Equip-Kits																			
Total Installation																			
Total Procurement Cost			14.4		5.4		2.0		1.5										23.3

Exhibit P-40, Budget Item Justification Sheet											Date:	February 1998
Appropriation / Budget Activity/Serial No:											P-1 Item Nomenclature:	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment											MSE MOD IN SERVICE (BB1611)	
Program Elements for Code B Items:											Other Related Program Elements:	
Code: A											BB1610, BB1600, BA1010	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost		33.3	17.0	10.1								60.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)		33.3	17.0	10.1								60.4
Initial Spares												
Total Proc Cost	0.0	33.3	17.0	10.1								60.4
Flyaway U/C												
Wpn Sys Proc U/C												

**DESCRIPTION:**  
The Mobile Subscriber Equipment (MSE) Modification in Service Line funds for high priority Echelons Corps and Below (ECB) system improvements.

**JUSTIFICATION:**  
The ECB portion of the Area Common User System-Modernization Plan (ACUS-MP) has been moved to the ACUS MOD Program (WIN - T) SSN BB1600 FY 98 and beyond.





INDIVIDUAL MODIFICATION																																																																																																																																																																																																																		
MODIFICATION TITLE: ECB Area Common User System Modernization Plan													Date	February 1998																																																																																																																																																																																																				
MODELS OF SYSTEMS AFFECTED: NETWORK MANAGEMENT AND CONTROL, SWITCHING, TERMINALS AND TRANSMISSION SYSTEMS																																																																																																																																																																																																																		
DESCRIPTION / JUSTIFICATION:																																																																																																																																																																																																																		
<p>The ACUS is an area switched communications system that is comprised of the Echelons Above Corps (EAC) Communications Network and the Echelons Corps and Below (ECB) Mobile Subscriber Equipment (MSE) System. Enhancements to systems, some unique to ECB, incorporate either through modification or redesign efforts improvements in switching, network control, transmission and subscriber terminal equipment. Enhancements within this ACUS-MP will provide future interfaces between the ECB Communications Network and Joint or Combined Forces.</p>																																																																																																																																																																																																																		
<p>DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:</p> <p style="text-align: center;">N/A</p>																																																																																																																																																																																																																		
<p>Installation Schedule:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Pr Yr</th> <th colspan="4">FY 1997</th> <th colspan="4">FY 1998</th> <th colspan="4">FY 1999</th> <th colspan="4">FY 2000</th> <th colspan="4">FY 2001</th> </tr> <tr> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> </tr> </thead> <tbody> <tr> <td>Totals</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> </tr> <tr> <td>Inputs</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> </tr> <tr> <td>Outputs</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Pr Yr</th> <th colspan="4">FY 2002</th> <th colspan="4">FY 2003</th> <th colspan="4">FY 2004</th> <th colspan="4">FY 2005</th> <th rowspan="2">To Complete</th> <th rowspan="2">Totals</th> </tr> <tr> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> </tr> </thead> <tbody> <tr> <td>Totals</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td> </tr> <tr> <td>Inputs</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td> </tr> <tr> <td>Outputs</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td> </tr> </tbody> </table>															Pr Yr	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Totals																					Inputs																					Outputs																					Pr Yr	FY 2002				FY 2003				FY 2004				FY 2005				To Complete	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Totals																			Inputs																			Outputs																		
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INDIVIDUAL MODIFICATION																				
Date																				
February 1998																				
MODIFICATION TITLE (Cont): ECB Area Common User System Modernization Plan																				
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring Equipment		50.3		5.8																56.1
Equipment, Nonrecurring				3.6																3.6
Engineering Change Orders				0.7																0.7
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 1996 & Prior Eqpt -- Kits																				
FY 1997 Eqpt -- Kits																				
FY 1998 Eqpt -- Kits																				
FY 1999 Eqpt -- Kits																				
FY 2000 Eqpt -- kits																				
FY 2001 Eqpt -- kits																				
FY 2002 Eqpt -- kits																				
FY 2003 Eqpt -- kits																				
TC Equip-Kits																				
Total Installment																				
Total Procurement Cost		50.3		10.1																60.4

Exhibit P-40, Budget Item Justification Sheet												
Appropriation / Budget Activity/Serial No:		Date: February 1998										
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Item Nomenclature: SOUTHCOM HQ RELOCATION (BU4000)										
Program Elements for Code B Items:		Other Related Program Elements:										
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	28.3	0.0	17.4	20.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	28.3	0.0	17.4	20.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.2
Initial Spares												
Total Proc Cost	28.3	0.0	17.4	20.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.2
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: In accordance with the Panama Canal Treaty, US Army Southern Command (SOUTHCOM) Headquarters must relocate by CY 1999. This program supports the relocation requirement for establishment of the C4I communications infrastructure at the new headquarters location. This project will meet the requirement from the Commander-in-Chief, SOUTHCOM (CINCSO) to support mission accomplishment throughout the spectrum of warfare, during both peace and war, from crisis buildup through war termination.

JUSTIFICATION: FY99 OPA funds are not required for this program.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: SOUTHCOM HQ RELOCATION (BU4000)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
Engineer, Furnish, Install, & Test (EFI&T) Command, Control, Communications, Computer, and Intelligence (C4I) Systems for SOUTHCOM Headquarters Relocation	A	8833	1	8833	17835	1	17835						
C4I Infrastructure	A	6966	1	6966	713	1	713						
UHFSATCOM Radios	A	189	7	27									
Red Switch (Furnish & Install)	A	1412	1	1412	447	1	447						
Automated Message Handling System	A				263	1	263						
Defense Information System Network (DISN)	A				225	1	225						
Joint Worldwide Intell Comm Sys (JWICS)	A				174	1	174						
Communications Support Processor	A				300	1	300						
COMSEC	A				187	VAR	VAR						
Matrix Switch	A				318	1	318						
TOTAL		17400			20462								

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998				
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature: SOUTHCOM HQ RELOCATION (BU4000)										
WBS Cost Elements: Fiscal Years			Contractor and Location		Contract Method and Type		Location of PCO		Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Engineer, Furnish, Install, & Test (E&I&T) Command, Control, Communications, Computer, and Intelligence (C4I) Systems for SOUTHCOM Headquarters Relocation FY 96 FY 97			MAN TECH, FAIRFAX, VA MAN TECH, FAIRFAX, VA		C/Other* OPTION		CECOM CECOM		Apr-96 Dec-96	Sep-96 Jan-97	1 1	8833 17835			
			SMPO, MEMPHIS, TN SMPO, MEMPHIS, TN		C/FP C/FP		Corps of Engineers Corps of Engineers		Apr-96 Nov-96	Aug-96 Feb-97	1 1	6966 713			
UHFSATCOM Radios FY 96			HARRIS CORP, MELBOURNE, FL		C/FP		CECOM		Jun-96	Jun-97	7	27			
Red Switch - Furnish/Install FY 96 FY 97			ELECTRO SPACE, FT WORTH, TX ELECTRO SPACE, FT WORTH, TX		C/FP OPTION		DISA DISA		May-96 Nov-96	Jan-97 Jan-97	1 1	1412 447			
Automated Message Handling System FY 97			TELOS, SHREWSBURY, NJ		C/FP		CECOM		Feb-97	Mar-97	1	263			
Defense Information System Network (DISN) FY 97			INTELLIGENCE INFORMATION SYSTEMS AGENCY II		CFP		DITCO		Feb-97	Mar-97	1	225			
Joint Worldwide Intell Comm Sys (JWICS) FY 97			SIGCOM, GREENSBORO, NC		C/FP		Virginia Contracting Activity		Jan-97	Mar-97	1	174			
<b>REMARKS:</b> * Other - Time and Materials DITCO - Defense Information Technical Contracting Office DISA - Defense Information Systems Agency CECOM - Communications - Electronics Command															

# Exhibit P-5a, Budget Procurement History and Planning

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: SOUTHCOM HQ RELOCATION (BU4000)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date	
Communications Support Processor FY 97	STERLING SOFTWARE	C/FP	Electronis System Center	Feb-97	Apr 97	1	300				
COMSEC FY 97	VAR*	IDIQ	USACCSLA	Feb-97	Apr 97	VAR	VAR				
Matrix Switch FY 97	GENERAL SIGNAL NETWORKS	C/FP	CECOM	Feb-97	Apr-97	1	318				
<b>REMARKS:</b> *VAR - Motorola, Gov't Systems Group, Scottsdale, AZ, Allied Signal Aerospace, Baltimore, MD General Signal Networks, Mt Laurel, NJ USACCSLA - US Army CECOM Communications Security Logistics Activity											

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												P-1 Item Nomenclature:
GLOBAL CMD & CONTROL SYS-Army (GCCS-A) (BA8250)												
Program Elements for Code B Items:												Other Related Program Elements:
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	35.4	13.0	15.3	20.3	16.8	20.6	13.2	8.7	6.4	6.4	84.5	240.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	35.4	13.0	15.3	20.3	16.8	20.6	13.2	8.7	6.4	6.4	84.5	240.6
Initial Spares												
Total Proc Cost	35.4	13.0	15.3	20.3	16.8	20.6	13.2	8.7	6.4	6.4	84.5	240.6
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Global Command and Control System-Army (GCCS-A) will provide the Army's interface to Joint Staff Global Command and Control System (GCCS) program. GCCS-A is being implemented in accordance with the GCCS concept of Defense Information Infrastructure Common Operating Environment (DII COE) and the Army Battle Command System (ABCS) Operational Requirements Document (ORD). The GCCS-A is the integration of software, hardware and communication architecture supporting strategic and tactical environments. The software development requirements for GCCS-A will be satisfied through a single systems engineering and integration contract which was awarded in December 1994. The intent is to field an integrated command and control (C2) system that provides standard, modular, system support and application software support capable of supporting a "tailored" set of functional applications and compatible, integrated exchange of data both horizontally and vertically throughout the Army hierarchy. This will accommodate a flexible, interoperable C2 system that can be tailored for various levels of command and will ensure connectivity. GCCS-A will support operations during peace as well as war including contingency and natural disaster operations. It will support major Army commands (MACOMS), Army Commanders in Chiefs (CINCs), Army Commands and Components, and Army elements within the Pentagon. The GCCS-A will support all staff sections within a headquarters, and all phases of conflict.

JUSTIFICATION: FY 99 funds will support the procurement and fielding of GCCS-A at all Army-managed worldwide command and control sites. Fielding of GCCS-A is mandatory in order for the Army to remain in lock step with GCCS milestones, and support the Army Battle Command System. Funds also support the DCSOPS, DISC4, and the TRADOC System Manager (TSM) directed establishment of Regional Training Centers (RTCs) in FY 99.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: GLOBAL CMD & CONTROL SYS-Army (GCCS-A) (BA8250)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
1. Sun Enterprise 4000	A	572	2	286	2856	10	286				1400	4	350
2. Sun Sparc 20 (V1 Theater WAN Server)		1307	30	44									
3. Sun Sparc 20 (V2 Theater LAN Server)		260	5	52	890	20	45						
4. Sun Sparc 20 (V1 Theater LAN Server)		4356	143	30									
5. Sun Sparc 20 (V1 Application Server)		868	23	38									
6. PC (Pentium Class) User Workstations					2092	490	4	450	100		2093	465	4
7. Laptop Computers					198	35	6						
8. Ultra Sparc Server					1398	40	35	2574	78	33	2115	47	45**
9. Sparc 20 Transit Cases					34	40	1				975	15	65***
10. Nexar Transit Cases					40	80	1				57	15	4
11. Bill of Material (BOM)*		2115									20	40	1
12. Fielding		826			2185			1242			872		
13. Technical Insertion					2658			1745			1900		
14. Informix Enterprise License		4950			2035			591			355		
15. DII COE Complaint software					5954			1582			1593		



Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: GLOBAL CMD & CONTROL SYS-Army (GCCS-A) (BA8250)				Weapon System Type:		Date: February 1998	
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99					
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
		16. PMO Fielding Support							3500			2500		
		17. First Digitized Division							883			892		
		18. Regional Training Centers							4240			5790		
		<b>TOTAL</b>	15254			20340			16807			20562		
*Site-unique hardware required to support installation and fielding. Includes LAN cables, racks, routers, etc.														
**Commercial														
***Hardened														

Exhibit P-5a, Budget Procurement History and Planning										
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					Weapon System Type: ?		P-1 Line Item Nomenclature: GLOBAL CMD & CONTROL SYS-Army (GCCS-A) (BA8250)			Date: February 1998
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
1. Sun Enterprise 4000 FY 96 FY 97 FY 99	GTE, Taunton, MA GTE, Taunton, MA GTE, Taunton, MA	IDIQ IDIQ IDIQ	CECOM CECOM CECOM	Mar-96 Jun-97 Feb-99	Aug-96 Aug-97 Jun-99	2 10 4	286 286 350	YES YES YES		
2. Sun Sparc 20 (V1 Theater WAN Server) FY 96	GTE, Taunton, MA	C/OPTION	CECOM	Feb-96	Jun-96	30	44	YES		
3. Sun Sparc 20 (V2 Theater LAN Server) FY 96 FY 97	GTE, Taunton, MA GTE, Taunton, MA	C/OPTION C/OPTION	CECOM CECOM	Feb-96 Dec-96	Jun-96 May-97	5 20	52 45	YES YES		
4. Sun Sparc 20 (V1 Theater LAN Server) FY 96	GTE, Taunton, MA	C/OPTION	CECOM	Feb-96	Jun-96	143	30	YES		
5. Sun Sparc 20 (V1 Application Server) FY 96	GTE, Taunton, MA	C/OPTION	CECOM	Feb-96	Jun-96	23	'38			
6. PC (Pentium Class) User Workstations FY 97 FY 98 FY 99	GTSI, Chantilly, VA GTSI, Chantilly, VA GTSI, Chantilly, VA	IDIQ IDIQ IDIQ	FEDSIM/FT Huachuca FEDSIM/FT Huachuca FEDSIM/FT Huachuca	Dec-96 Feb-98 Feb-99	May-97 Apr-98 Apr-99	490 100 465	4 4 4	YES YES YES		
7. Laptop Computers FY 97	GTSI, Chantilly, VA	IDIQ	GSA, Kansas City, KS	May-97	Sep-97	35	6	YES		
REMARKS:										

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature: GLOBAL CMD & CONTROL SYS-Army (GCCS-A) (BA8250)							
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date	
8. Ultra Sparc Server FY 97 (Commercial) FY 98 (Commercial) FY 99 (Commercial) (Hardened)	GTE, Taunton, MA GTE, Taunton, MA GTE, Taunton, MA GTE, Taunton, MA	C/OPTION C/OPTION C/OPTION C/OPTION	CECOM CECOM CECOM CECOM	Jul-97 Feb-98 Feb-99 Feb-99	Aug-97 Jun-98 Jun-99 Jun-99	40 78 47 15	35 33 45 65	YES YES YES YES			
9. Sparc 20 Transit Cases FY 97 FY 99	Thermodyne Int'l, Ontario, CA GTE, Taunton, MA	FFP C/OPTION	GSA, Kansas City, KS CECOM	Jul-97 Feb-99	Sep-97 Jun-99	40 15	1 4	YES YES			
10. Nexar Transit Cases FY 97 FY 99	Thermodyne Int'l, Ontario, CA Thermodyne Int'l, Ontario, CA	FFP FFP	GSA, Kansas City, KS GSA, Kansas City, KS	Jul-97 Feb-99	Sep-97 Apr-99	80 40	1 1	YES YES			
REMARKS:											

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT 12 / Communications and Electronics Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												ARMY DATA DISTRIBUTION SYSTEM (ADDS) (BU1400)
Code:												Other Related Program Elements:
A												
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty												
Gross Cost	393.3	9.5	44.6	77.5	24.0	42.3	39.2	38.0	48.4	3216.0	4000.0	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	393.3	9.5	44.6	77.5	24.0	42.3	39.2	38.0	48.4	3216.0	4000.0	
Initial Spares												
Total Proc Cost	393.3	9.5	44.6	77.5	24.0	42.3	39.2	38.0	48.4	3216.0	4000.0	
Flyaway U/C												
Wpn Sys Proc U/C												

**DESCRIPTION:** The Army Data Distribution System (ADDS) is a Command, Control, and Communication (C3I) network consisting of the Data Radios Systems: Enhanced Position Location Reporting System (EPLRS) and Near Term Digital Radio (NTDR). EPLRS is a direct outgrowth of the Army/United States Marine Corps (USMC) Position Locating Reporting System (PLRS) and provides battlefield commanders combat information on the position of their forces in addition to supporting the majority of the data communication needs of the multitude of computers to be fielded as part of the Army Tactical Command and Control System (ATCCS) and battlefield digitization efforts. EPLRS is the primary data communications means in the division and corps until the FY04 time frame. The Wide Band Data Radio provides greater data transmission capability, is upgraded via software and is consistent with the evolving PMCS reference model architecture. The Army is fielding ATCCS to automate and increase the effectiveness of the five Battlefield Functional Areas (BFA): Maneuver Control, Fire Support, Air Defense, Intelligence, and Combat Support. ADDS is essential to support tactical operations on the automated battlefield with reliable, real-time, secure, jam resistant data communications and position location capabilities. It has been designed specifically to meet the data communication requirements of emerging computer and sensor systems.

**JUSTIFICATION:**

EPLRS: The FY99 budget will allow the Army to procure 201 additional Enhanced PLRS User Unit (EPUU) Radio Sets (RSs) and continue the fielding of prior year hardware procurements to contingency Corps units. The FY99 budget will also provide for New Equipment Training (NET), integration, ECOs, life cycle software engineering and program management support.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: ARMY DATA DISTRIBUTION SYSTEM (ADDS) (BU1400)			Weapon System Type:			Date: February 1998		
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99					
ID	CD		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
A		Enhanced Position Location Reporting System (EPLRS) Hardware EPUU RS (1,3) Hardware NCS-E(D) Engineering Support Contractor System Engineering Government In-House Engineering Change Orders (ECOs) Integration/Installation/Retrofit (2) Training Life Cycle Software Engineering Tooling, Test Equipment / NR Testing Contractor Project Management Project Management Administration Data Total Package Fielding	13422 5678 1348 2349 188 1699 510 550 1123 9315 994 1594 437 5356	325 7	41 811	40372 3246 7457 2161 8650 5026 276 1066 860 406 3552 1587 170 2675	1100 5	37 649	30771 3719 8113 2178 3161 5583 4430 68 1069 584 1066 1205 66 2531	1774 6	17 620	6668 2740 2161 196 4430 68 1069 584 1066 1205 69 3792	201	33
TOTAL			44563			77504			67163			24048		
(1) Hdw EPUU RS costs include EPLRS FRP procurement. Procurement in FY97 includes material for the FY98 qty of 1774. (2) FY97 & 98 incl procurement of EPUU retrofit kit and FY99 incl field retrofit and reburn. (3) EPUU RS (Radio Set) Consists of the Enhanced PLRS User Unit, User Readout Device, installation kits and power adapter.														

(1) Hdw EPUU RS costs include EPLRS FRP procurement. Procurement in FY97 includes material for the FY98 qty of 1774.  
 (2) FY97 & 98 incl procurement of EPUU retrofit kit and FY99 incl field retrofit and reburn.  
 (3) EPUU RS (Radio Set) Consists of the Enhanced PLRS User Unit, User Readout Device, installation kits and power adapter.

# Exhibit P-5a, Budget Procurement History and Planning

Exhibit P-5a, Budget Procurement History and Planning											Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature: ARMY DATA DISTRIBUTION SYSTEM (ADDS) (BU1400)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date	
Army Data Distribution System (ADDS)											
Enhanced Position Location Reporting System (EPLRS)											
Hardware EPUU RS	Hughes Aircraft Co., Forest, MS	SS/FFP	CECOM	Mar-96	Nov-97	325	41			Oct-95	
FY 96				Sep-97	Jan-99	1100	37	NO	Dec98	Mar-97	
FY 97				Sep-97	Jan-99	957	17	NO	Dec98	Mar-97	
FY 98				Dec-98	Nov-00	817	17	NO	Dec98	Mar-97	
FY 99				Mar-99	Feb-02	201	33	YES		Mar-97	
Hardware NCS-E(D)	CECOM / C2SID *	MIPR	CECOM	Nov-95	Mar-97	7	811	YES	NA	NA	
FY 96				Sep-97	Aug-98	5	649	YES	NA	NA	
FY 97				Dec-97	Jan-99	6	620	NO	NA	NA	
FY 98											
REMARKS:											
The EPUU Radio Set consists of the Enhanced PLRS User Unit, User Readout Device, installation kits and power adapter.											
The FY97-FY98 EPUU RS contract is one Multiyear award in FY97 for 2057 EPUUs.											
* Command and Control Systems Integration Directorate											









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Exhibit P-40, Budget Item Justification Sheet										Date:	February 1998	
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:								MOBILE SUBSCRIBER EQUIP (MSE) (BB1610)		
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Other Related Program Elements:										
Program Elements for Code B Items:		Code:										
		A										
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	4460.5		3.3	6.0								4469.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	4460.5		3.3	6.0								4469.8
Initial Spares												
Total Proc Cost	4460.5		3.3	6.0								4469.8
Flyaway U/C												
Wpn Sys Proc U/C												

**DESCRIPTION:**  
The Mobile Subscriber Equipment (MSE) Communications System is a fielded area switching and radio communication system providing Corps and Division, mobile and wire-line users automatic secure dial telephone service for both voice and data. MSE provides uninterrupted communication which enables commanders and staffs to exercise command and control from both mobile platforms and Command Posts which may be dispersed or massed, and requires frequent relocation due to enemy threat and conduct of battle.

**JUSTIFICATION:**  
The Echelons Corps and Below (ECB) portion of the Area Common User Systems - Modernization Plan (ACUS-MP) has been moved to the Joint Tactical Area Comms Sys line SSN BA1010 FY 98 and beyond.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: MOBILE SUBSCRIBER EQUIP (MSE) (BB1610)		Weapon System Type:		Date: February 1998	
OPA Cost Elements	ID	FY 96		FY 97		FY 98		FY 99	
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each
1. PROJ MANAGEMENT ADMIN	-	1927			2000				
2. GOVT/CONT ENGINEERING	-	1409			1261				
3. AREA COMMON USER SYSTEMS- MODERNIZATION PLAN (ACUS-MP) (TRAINING DEVICE UPGRADE)	A				2708				
<b>TOTAL</b>		<b>3336</b>			<b>5969</b>				

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature: MOBILE SUBSCRIBER EQUIP (MSE) (BB1610)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
1. AREA COMMON USER SYSTEMS- MODERNIZATION PLAN (ACUS - MP) TDU 1997	GTE TAUNTON, MA	SS/CPAF	CECOM	Feb-97	Jun-98	N/A	N/A	YES		
<b>REMARKS:</b> Quantity/Unit Cost not applicable. Systems are being procured as software enhancements/engineering change proposals (ECPs).										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										SINGGARS FAMILY (BW0006)	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Other Related Program Elements:											
Program Elements for Code B Items:		Code:											
		A											
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty	96729		23797	31302	32847							184675	
Gross Cost	1696.8	344.7	354.8	311.3	285.2	13.2	13.5	0.0	0.0	0.0	0.0	3019.5	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	1696.8	344.7	354.8	311.3	285.2	13.2	13.5	0.0	0.0	0.0	0.0	3019.5	
Initial Spares	14.1	1.9	1.6	1.3	1.5	1.4						21.8	
Total Proc Cost	1710.9	346.6	356.4	312.6	286.7	14.6	13.5	0.0	0.0	0.0	0.0	3041.3	
Flyaway U/C	0.0150	0.0139	0.0143	0.0097	0.0097							0.0134	
Wpn Sys Proc U/C	0.0158	0.0145	0.0149	0.0102	0.0102							0.0141	

**DESCRIPTION:**

The Single Channel Ground and Airborne Radio System (SINGGARS) is the VHF-FM Radio Communications System providing the primary means of command and control for infantry, armor, artillery, and Army aviation units. It possesses capabilities and improvements over the 1960 technology radios it replaces in manpack, vehicular, and airborne configurations. Its Frequency-Hopping jam resistant capability will offset the current threat of jamming techniques used against the existing family of fixed frequency radios. SINGGARS continues its evolutionary development with the fielding of the SINGGARS System Improvement Program (SIP) radio. The SINGGARS SIP radio provides for enhanced data and voice communications while using commercial Internet Protocols within an Internet Controller. The SINGGARS SIP radio forms the linchpin of the Tactical Internet and is a major contributor to the Army digitization effort. It will assist commanders in conducting the battle on the digitized battlefield. SINGGARS is used in such systems as PATRIOT, M1A2 Tank Improvement Program, Paladin, and Longbow Apache.

**JUSTIFICATION:**

Funding in FY 99 and out will support completion of the fielding program.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: SINCGARS - AIRBORNE (J30500)				Weapon System Type:		Date: February 1998	
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99					
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
A		AIRBORNE HARDWARE	11813	481	24559	11827	815	14512	5733					
		HARDWARE KITS	214			160			373					
		GOVERNMENT ENGINEERING	155			130			133					
		DATA	398						1500					
		GRM-122 UPGRADE							1500					
		AIRBORNE ASIP												
		FIELDING												
		ENGINEERING SUPPORT												
		TOTAL	12580			12117			9239					
NOTE: QUANTITIES SHOWN ARE ACTUAL PROCUREMENT QUANTITIES.														

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature: SINCGARS - AIRBORNE (J30500)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
AIRBORNE HARDWARE FY 96 FY 97	ITT, FT WAYNE, IND ITT, FT WAYNE, IND	SS/FFP/OPT SS/FFP/OPT	CECOM CECOM	May-96 Apr-97	Jun-97 Jun-98	481 815	24559 14512	Yes Yes		
<b>REMARKS:</b> FY 98 program is for airborne retrofit kits. Quantities shown are actual procurement quantities.										









Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature: SINCGARS - GROUND (800500)						
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
HARDWARE ITT FY 96 FY 97 FY 98	ITT, FT. WAYNE, IND ITT, FT. WAYNE, IND ITT, FT. WAYNE, IND	C/FP C/FP C/FP/OPT	CECOM CECOM CECOM	Apr-96 Apr-97 Apr-98	Jun-97 Jun-98 Aug-99	12802 30487 32847	9671 5444 4712	Yes Yes Yes		
HARDWARE GD FY 96	GD, TALLAHASSEE, FL	C/FP	CECOM	Apr-96	Aug-97	10514	10046	Yes		
<b>REMARKS:</b> Quantities shown are actuals for FY 96 and FY 97 and planned for FY 98.										







Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: BATTLEFIELD ELECTRONIC COMM SYS (BECS) (Z16800)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
A		1239 609 308 329  9031 2189  13705	1575	1	4854 860 232 283 4399 944 1924  13496	6168	1						
DATA TRANSFER DEVICE													
GOVERNMENT ENGINEERING													
DOCUMENTATION													
FIELDING													
LRIP DTD UPGRADE													
PRODUCTION DTD UPGRADE													
CONTRACTOR ENGINEERING													
CHS UPGRADE WORKSTATION													
TOTAL													
NOTE: QUANTITIES SHOWN ARE ACTUAL QUANTITIES.													



Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998												
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature:																	
					BATTLEFIELD ELECTRONIC COMM SYS (BECS) (Z16800)																	
WBS Cost Elements: Fiscal Years			Contractor and Location		Contract Method and Type		Location of PCO		Award Date		Date of First Delivery		QTY Each		Unit Cost \$000		Specs Avail Now?		Date Reven Avail		RFP Issue Date	
DATA TRANSFER DEVICE			ALLIED SIGNAL, TOWSON MD		C/FP/OPT NSA		NSA		Jun-96		Jul-97		1575		1		YES					
FY 96			ALLIED SIGNAL, TOWSON MD		C/FP/OPT NSA		NSA		Feb-97		Aug-97		6168		1		YES					
FY 97																						
LRIP DTD UPGRADE			GROUP TECHNOLOGIES		SS/FP		NSA		Mar-97		Sep-97		7884		1		YES					
FY 97			TAMPA, FL																			
CHS UPGRADE WORKSTATION			GTE		C/FP/OPT		CECOM		Feb-97		Feb-98		215		9		YES					
FY 97			TAUNTON, MA																			
NOTE: QUANTITIES SHOWN ARE ACTUAL QUANTITIES.																						
<b>REMARKS:</b> CHS Workstation Upgrade did not include transit cases, mountings and ancillary items as they were not available/negotiated. They will be purchased in FY 98 under line BA 1201. The cost for these items is not included in the unit price.  Accelerated delivery of Data Transfer Devices was provided by Allied Signal in order to meet backlog orders to support FY 97 fielding schedule.																						

[illegible]



Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P.I Item Nonnomenclature:	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												JOINT TACTICAL AREA COMMS SYS (BA1010)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code: A													
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	411.3	49.5	44.2	43.3	10.4	9.9	9.6	8.4	10.0	10.3	0.0	606.9	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	411.3	49.5	44.2	43.3	10.4	9.9	9.6	8.4	10.0	10.3	0.0	606.9	
Initial Spares													
Total Proc Cost	411.3	49.5	44.2	43.3	10.4	9.9	9.6	8.4	10.0	10.3	0.0	606.9	
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:**  
Effective FY98, BA1010 funds 2 separate allotments in accordance with (IAW) transfer of PM JTACS equipments to US Army Communications Electronics Command (CECOM), as follows: (1) Funding for Project Manager, Warfighter Information Network-Terrestrial (PM WIN-T) to support personnel/equipments negotiated to remain with the new PM; the WIN is a total information system architecture that supports requirements of the Digitized Force XXI. WIN is the architecture that will seamlessly link our diverse information resources into a network Army warfighters can use on the 21st century's digitized battlefield and (2) Funding for CECOM Special Project Office, JTACS Systems Branch, and completion of Level II projects.

<b>Exhibit P-40C Budget Item Justification Sheet</b>			Date	February 1998
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature		
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		JOINT TACTICAL AREA COMMS SYS (BA1010)		
Program Elements for Code B Items	Code	Other Related Program Elements		
<p><b>JUSTIFICATION:</b></p> <p>PM WIN-T Allocation - FY99 funds are required for the Project Management Administration to support the day to day operations of the Project Manager Office, WIN-T, which includes salaries, travel and training in support of all existing and anticipated contracts; Production Engineering to provide for the necessary government matrix personnel in direct support of the above mission; and Contractor Engineering support to provide support to the Project Manager of a type not available within either Core or Matrix assets. FY 99 funding continues to support the Area Common User System-Modernization Plan (ACUS-MP). The ACUS is an area switched communications system that is comprised of the EAC Comm Network, which evolved from the original Tri-Service Tactical Communications (TRI-TAC) system and the Echelons Corps and Below (ECB) Mobile Subscriber Equipment System. The Army will continue to modernize the area common user system in FY 99 and transition to the Warfighter Information Network (WIN) to capitalize on advances made in information technology. WIN will provide bandwidth-on-demand switching, improved wide band radios and fiber optic cable required to increase communication interoperability, reliability and capacity. These improvements are required to support digitization of the battlefield and provide for increased user services by leveraging advances in commercial technology.</p> <p>CECOM/JTACS Systems Branch Allocation - FY99 funds are required to provide Level II Project Management of equipment transferred from PM JTACS to CECOM, to include the completion of QEAM and to support the CECOM Special Projects Office workyear requirements.</p>				

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: JOINT TACTICAL AREA COMMS SYS (BA1010)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
PM WIN-T Allotment:													
1. PROJ MANAGEMENT ADMIN	-	2399			1981			4154			3998		
2. ENGINEERING SUPPORT	-	1913			2146			3693			4851		
GOVERNMENT/CONTRACTOR	-												
3. FIELDING/RETROFIT	-	1463			22839								
4. AREA COMMON USER SYSTEM-	A	10020											
MODERNIZATION PLAN (ACUS-MP)													
5. DOWNSIZE PROGRAM	A	24337			13572								
6. QEAM	A	4070	2000	2	2804								
SUBTOTAL		44202			43342			7847			8849		
CECOM JTACS Systems Branch:													
7. QEAM								900			200		
8. AN/TYQ-69								500					
9. AN/GRC-226								300			876		
10. Project Admin Support								824					
SUBTOTAL								2524			1076		
TOTAL		44202			43342			10371			9925		

Exhibit P-5a, Budget Procurement History and Planning											
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:		Date: February 1998					
WBS Cost Elements: Fiscal Years				Contract Method and Type		Location of PCO		Award Date		P-1 Line Item Nomenclature: JOINT TACTICAL AREA COMMS SYS (BA1010)	
				Contractor and Location				Date of First Delivery		Specs Avail Now?	
								QTY Each		Unit Cost \$000	
										Date Revisn Avail	
										RFP Issue Date	
1. AREA COMMON USER SYS-MODERNIZATION PLAN (ACUS-MP) 1996				GTE, TAUNTON MA		SS/OPT		May-96 Jun-96 Oct-96		N/A	
1997 ATM, ESOP				GTE, TAUNTON MA		SS		Jul-97 Jul-97		N/A	
2. DOWNSIZE PROGRAM 1996 HMDA, D/S CSCE, SSS, TSM-210				LAGUNA IND, ALBUQUERQUE NEW MEXICO		SS/FP		May-96 thru Sep-96 Nov-96 thru May-97		N/A	
1997 HMDA, D/S CSCE, SSS				LAGUNA IND, ALBUQUERQUE NEW MEXICO		SS/FP		Jul-97 thru Aug-97		N/A	
3. QUICK ERECT ANTENNA MAST (QEAM)/CECOM 1996				TRI EX, VISALIA CA		SS/FP		Sep-96		2	
1997				TRI EX, VISALIA CA		SS/FP		Aug-97		N/A	
1998				TRI EX, VISALIA CA		SS/FP		Feb-98		N/A	
1999				TRI EX, VISALIA CA		SS/FP		May-99		N/A	
REMARKS:				The Echelons Corps and Below (ECB) portion of the ACUS-MP (SSN BB1610) has been moved to this line effective FY98. Quantity/Unit Cost not applicable for ACUS-MP and Downsize Programs. Systems are being procured as software enhancements/engineering change proposals/non-recurring engineering efforts and studies. QEAM award in FY 97 is for engineering change proposals to correct deficiencies found during user test and Task Force XXI. FY98/99 supports contractual efforts for ECPs, training videos and warranty revision program.							







Exhibit P-40, Budget Item Justification Sheet											Date:	
Appropriation / Budget Activity/Serial No:											February 1998	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment											ACUS MOD PROGRAM (WIN-T) (BB1600)	
P-1 Item Nomenclature:												
Program Elements for Code B Items:												
Other Related Program Elements:												
Code: A												
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	308.0	11.7	11.4	13.2	102.3	97.1	108.6	114.9	150.5	100.4	2127.6	3145.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	308.0	11.7	11.4	13.2	102.3	97.1	108.6	114.9	150.5	100.4	2127.6	3145.7
Initial Spares												
Total Proc Cost	308.0	11.7	11.4	13.2	102.3	97.1	108.6	114.9	150.5	100.4	2127.6	3145.7
Flyaway U/C												
Wpn Sys Proc U/C												

**DESCRIPTION:**  
The ACUS MOD PROGRAM (WIN-T) line funds the ongoing and planned modifications to the Area Common User System (ACUS) and supports its migration to the Army's Warfighter Information Network (WIN) systems architecture. The WIN is a total information system architecture that supports the requirements of the Digitized Force XXI. WIN is the architecture that will seamlessly link our diverse information resources into a network the Army warfighters can use on the 21st century's digitized battlefield. The components of the terrestrial portion of WIN are: (A) The Division Slice is the engineering effort to prove out the institutional upgrade of the legacy area common user system switches with Asynchronous Transfer Mode (ATM); (B) The Switch Modernization procures/fields upgraded capability throughout the Army; (C) The Radio Modernization provides the increased transmission pipes between switches to move voice, data, video, collaborative planning, etc. on the digitized battlefield; (D) Battlefield Video Teleconferencing (BVTC) provides a single standard video terminal on the battlefield; (E) Remote Access Unit Range Extension increases the range a minimum of 50% for the current mobile telephone, and (F) Tactical Internet Manager provides Wide Area Network management and services for the brigade and below portion of the tactical internet. Also included are spares to support all upgrades and associated upgrades to the Training Devices. The objective is for a Force Package (FP) and corresponding slice of Force Support Package (FSP) to be fielded every 3 years after the First Digitized Division (FDD) in FY 00 and First Digitized Corps (FDC) in FY 04. This line also supports ACUS Legacy Systems, such as: DGM Antenna Mast Program (DAMP); AN/TSM-210 Maintenance Shelter; Downsized Communications System Control Element (D/S CSCE).

<b>Exhibit P-40C Budget Item Justification Sheet</b>		Date	February 1998
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		ACUS MOD PROGRAM (WIN-T) (BB1600)	
Program Elements for Code B Items	Code	Other Related Program Elements	
	A	BB1610, BB1600, BA1010	
<p><b>JUSTIFICATION:</b></p> <p>FY 99 continues the Area Common User System-Modernization Plan (ACUS-MP) and provides for the necessary production/contractor engineering support. The ACUS is an area switched communications system that is comprised of the EAC Comm Network, which evolved from the original Tri-Service Tactical Communications (TRI-TAC) concept and the Echelons Corps and Below (ECB) Mobile Subscriber Equipment System. The Army will continue to modernize the area common user system in FY 99 and will transition to the Warfighter Information Network (WIN) to capitalize on advances made in information technology. WIN will provide bandwidth-on-demand switching, improved wide band radios and fiber optic cable to increase communication interoperability, reliability and capacity. The current funding stream supports the fielding of a FP and corresponding slice of a FSP every three years.</p>			



INDIVIDUAL MODIFICATION																	
MODIFICATION TITLE: EAC Area Common Use System Modernization Plan													Date	February 1998			
MODELS OF SYSTEMS AFFECTED: Network Management and Control, Circuit Switching, Data Switching, Terminals and Transmission Systems																	
DESCRIPTION / JUSTIFICATION:																	
<p>The ACUS is an area switched communication system that is comprised of the Echelons Above Corps (EAC) Communications Network and the Echelons Corps and Below (ECB) Mobile Subscriber Equipment (MSE) System. On going and planned modifications to the ACUS will support its migration to the Army's Warfighter Information (WIN) systems architecture. The WIN is a total information system architecture that supports the requirements of the Digitized Force XXI. WIN is the architecture that will seamlessly link the diverse information resources into a network the Army warfighters can use on the 21st century's digitized battlefield.</p>																	
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONE N/A																	
Installation Schedule:																	
Pr Yr		FY 1997			FY 1998			FY 1999			FY 2000			FY 2001			
Totals		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs																	
Outputs																	
Totals																	
Inputs																	
Outputs																	
Totals																	
METHOD OF IMPLEMENTATION:																	
Contract Dates: FY 1997 Enter L Dec/Feb FY 1998 Enter L Dec/Mar PRODUCTION LEADTIME 2-24 Months																	
Delivery Date: FY 1997 Enter L Variable FY 1998 Enter L Variable FY 1999 Enter Date Dec/Mar																	



Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										TAC RADIO (BA1205)	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Other Related Program Elements:											
Program Elements for Code B Items:		Code:		A									
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty			500	1120								1620	
Gross Cost			24.0	35.5								59.5	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)			24.0	35.5								59.5	
Initial Spares													
Total Proc Cost			24.0	35.5								59.5	
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:**  
The Single Channel Ground and Airborne Radio System (SINGARS) uses Frequency hopping as an electronic counter-countermeasure (ECCM) mode of operation. The TAC Radio (Frequency Hopping Multiplexer) will allow up to four very high frequency-modulation (VHF-FM) radios in the ECCM mode to operate using one mobile or stationary antenna system. It will improve the physical profile and reduce setup and teardown time for command post antenna and reduce cosite interference.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: TAC RADIO (BA1205)		Weapon System Type:		Date: February 1998	
ID	CD	FY 96		FY 97		FY 98		FY 99	
		TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each
A		13904	500	27808	26920	1120	24036		
		6733			1695				
		1204			5348				
		869			202				
		947			968				
		371			396				
TOTAL		24028			35529				



Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998													
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics			Weapon System Type:			P-1 Line Item Nomenclature:																	
Equipment			Contract Method and Type			Location of PCO		Award Date		Date of First Delivery		QTY Each		Unit Cost \$		Specs Avail Now?		Date Revisn Avail		RFP Issue Date			
WBS Cost Elements: Fiscal Years HARDWARE FY 96 FY 97			XETRON CINN OHIO XETRON CINN OHIO			SS/FFP SS/FFP			CECOM CECOM			Mar-96 Mar-97		Aug-97 Apr-98		500 1120		27808 24036					
REMARKS: Quantities are actual procurement quantities.																							





Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												C-E CONTINGENCY/FIELDING EQUIP (BA5210)
Code:												Other Related Program Elements:
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	143.5	7.5	5.3	0.6	2.0	2.2	3.4	4.9	6.1	6.9	0.0	182.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	143.5	7.5	5.3	0.6	2.0	2.2	3.4	4.9	6.1	6.9		182.3
Initial Spares												
Total Proc Cost	143.5	7.5	5.3	0.6	2.0	2.2	3.4	4.9	6.1	6.9	0.0	182.3
Flyaway U/C												
Wpn Sys Proc U/C												

This line is required to fund the fielding costs associated with a variety of Communications-Electronics (C-E) systems and efforts not identifiable to a current major system hardware line. Fielding costs include Total Package Fielding (TPF), New Equipment Training (NET), and First Destination Transportation (FDT). TPF efforts include validation of the Materiel Requirements List (MRL), depot staging costs, deprocessing, inventory, installation and handoff of all required equipment and materiel to gaining units. The funding shown for NET is to train the instructor and key personnel who then train the users in the field in operating and maintenance of CECOM managed equipment. FDT costs are those associated with the shipping of various C-E equipment from the contractor to the depot.

**JUSTIFICATION**

The primary efforts to be funded in FY99 are TPF/NET for C-E equipment requirements for the conversion of selected units. Funds will activate multiple brigades with MSE and TRI-TAC capabilities. These conversions are restructured in accordance with (IAW) a downsized force structure. The primary projected efforts to occur in FY99 are the conversions of the 534th Sig Bn and 156 Sig Bn to MSE equipment and the conversion of MSE shelters from Digital Group Multiplexers (DGM) to the newer Transmission Interface Module (TIM) system MSE. These funds will ensure that critical round-out signal units are equipped for the mobile digitized battlefield with GO-TO-WAR systems.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: C-E CONTINGENCY/FIELDING EQUIP (BA5210)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
FIELDING													
TPF													
Battlefield Communications Review (BCR)		2572			493			1357			1570		
Conversions		1947						300			300		
CECOM Managed Systems (Non-PEO)		75											
Upgrade Equipment CINCHAWK													
NET													
Satellite Systems		140						100			100		
Ground Communications		20						20			20		
CECOM Managed Systems (Non-PEO)		331			30			137			126		
FDT Various C-E Non-Major Systems		200			46			50			50		
TOTAL		5285			569			1964			2166		

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												P-1 Item Nomenclature: SOLDIER ENHANCEMENT PROGRAM COMMELECTRO (BAS300)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code:													
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	0.0	0.0	0.0	0.0	1.0	4.6	3.4	4.5	5.3	6.3	0.0	25.1	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	0.0	0.0	1.0	4.6	3.4	4.5	5.3	6.3	0.0	25.1	
Initial Spares													
Total Proc Cost	0.0	0.0	0.0	0.0	1.0	4.6	3.4	4.5	5.3	6.3	0.0	25.1	
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:** The Soldier Enhancement Program procures soldier items that will ensure that our combat soldiers maintain and improve their lethality, survivability, mobility, command and control, and sustainment. Commencing in FY98, the item to be procured will be the Soldier Intercom (SI) [formerly identified as the Individual Soldier Radio (ISR)]. The SI is a small voice radio with a tethered speaker/microphone for use by individuals within a squad to coordinate their movement. SI will allow squad members to communicate more effectively while conducting day/night combat operations over distances without relying on hand and arm signals, particularly in Military Operations in Urban Terrain (MOUT). The SI is an inexpensive means of coordinating squad communication and facilitates dissemination of information from the squad leader. The SI consists of a receiver/transmitter, antenna, speaker/microphone, and carrying case for the load bearing equipment. The SI is the US Army Infantry Center #1 materiel solution priority.

**JUSTIFICATION:** Command and control through radios currently ends at the squad leader level. The SI will extend the ability of the squad leader to disseminate voice information to the members of the squad by using a small rugged, non-developmental radio. The FY99 funds will complete fielding of Force Package (FP) I and commence fielding of FP II and III (i.e., non Land Warrior, Mounted Warrior, and Air Warrior).



Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature: SOLDIER ENHANCEMENT PROGRAM COMM/ELECTRONICS (BAS300)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Hardware - Soldier Intercom (Individual)										
FY98	ICOM America, Inc.	GSA Sch	SSCOM	Mar 98	Jun-98	1576	618	No	Yes	May 97
FY99	ICOM America, Inc.	GSA Sch	SSCOM	Oct-98	Oct-98	7432	618	No	Yes	May 97
REMARKS: Can be procured from GSA Schedule as a Commercial Off -The-Shelf item.										



Exhibit P-40, Budget Item Justification Sheet											Date:	
Appropriation / Budget Activity/Serial No.											February 1998	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												
P-1 Item Nomenclature:												
COMBAT SURVIVOR EVADER LOCATOR (CSEL) (B03200)												
Program Elements for Code B Items:												
Code: A												
Other Related Program Elements:												
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	0.0	0.0	5.5	13.7	18.6	7.1	7.1	7.1	0.0	59.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	5.5	13.7	18.6	7.1	7.1	7.1	0.0	59.2
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	5.5	13.7	18.6	7.1	7.1	7.1	0.0	59.2
Flyaway U/C												
Wpn Sys Proc U/C												

**DESCRIPTION:**  
The USAF Combat Survivor Evader Locator (CSEL) communication system handheld radio includes secure digital message communications, Global Positioning System (GPS), line of sight (LOS) voice, and radio satellite and ground equipment interfaces to work with existing search and rescue systems for downed aircraft personnel. CSEL decreases the enemy's ability to detect or decipher rescue communications through the use of satellite communications. GPS allows pinpoint location of the U.S. survivor evader. Based on replacing the AN/PRC-112, there is a requirement for 18,531 CSELS, including Special Forces.

**JUSTIFICATION:**  
The FY 99 program of 1890 units are to support Force Package 1.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: COMBAT SURVIVOR EVADER LOCATOR (CSEL) (B03200)				Weapon System Type:		Date: February 1998	
ID	OPA Cost Elements	FY 96		FY 97		FY 98		FY 99		TotalCost	Qty	UnitCost	UnitCost
		TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each				
A	Hardware Ancillary Equipment System Project Management Fielding							4811 425 274	763	6305	11530 1064 878 240	1890	6101
	TOTAL					5510				13712			

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998	
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature: COMBAT SURVIVOR EVADER LOCATOR (CSEL) (803200)						
WBS Cost Elements: Fiscal Years		Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Hardware FY 98 FY 99		Boeing N. Amer., Los Angeles Boeing N. Amer., Los Angeles	SS SS	USAF USAF	Jun-98 Jun-99	Oct-99 Oct-00	763 1890	6305 6101	No No		
REMARKS:											





Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:				P-1 Item Nomenclature:									
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				MEDICAL COMM FOR CBT CASUALTY CARE (MC4) (MA8046)									
Program Elements for Code 8 Items:				Other Related Program Elements:									
				Code:		A							
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	0.0	0.0	0.0	0.0	0.0	9.4	16.7	11.4	9.5	9.5	0.0	56.4	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	0.0	0.0	0.0	9.4	16.7	11.4	9.5	9.5	0.0	56.4	
Initial Spares													
Total Proc Cost	0.0	0.0	0.0	0.0	0.0	9.4	16.7	11.4	9.5	9.5	0.0	56.4	
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:** Medical Communication for Combat Casualty Care (MC4) provides support to the medical force structure through the acquisition of existing and emerging digital communications equipment and information management/technology capabilities for modular hospital platforms and non-hospital units throughout the wartime theater of operations as well as peace operations, humanitarian assistance and operations in aid of civil authorities.

**JUSTIFICATION:** FY99 budget request supports requirements for the initial incremental fielding of Force Package 1 for far forward combat casualty care capability. It inserts new technologies into existing platforms and initiates implementation of Force XXI concepts through communication advancement to enhance medical treatment. Acquisition of specific equipment supporting MC4 are displayed in the attached exhibits.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2/ Communications and Electronics Equipment				P-1 Line Item Nomenclature: MEDICAL COMM FOR CBT CASUALTY CARE (MC4) (MA8046)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
A											1500	1	1500
A											1500	1	1500
A											2900	2	1450

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: MEDICAL COMM FOR CBT CASUALTY CARE (MC4) (MA8046)		Weapon System Type:		Date: February 1998		
OPA Cost Elements	ID CD	FY 96		FY 97		FY 98		FY 99		
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
Digitized Command and Control or Battalion Sized Units to include: Computers Desktop/Notebook Wireless LAN and Equipment Pagers Hand Held Radios VTC Software TMIP Package  TOTAL	A							3540	8	443
								9440		



Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature: MEDICAL COMM FOR CBT CASUALTY CARE (MC-4) (MA8046)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Future Small Extension Node FY 99	TBS	TBS	TBS	Dec-98	Mar-99	1	1500	YES		
Medical Detachment Telemedicine FY 99	TBS	TBS	TBS	Dec-98	Mar-99	1	1500	YES		
Digitized Combat Support Hospitals FY 99	TBS	TBS	TBS	Dec-98	Mar-99	2	1450	YES		
Digitized Command and Control or Battalion Sized Units FY 99	TBS	TBS	TBS	Dec-98	Mar-99	8	443	YES		
REMARKS:										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										CI AUTOMATION ARCHITECTURE (BK5284)	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Other Related Program Elements:											
Program Elements for Code B Items:		Code:											
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	0.0	0.0	0.0	2.4	2.3	2.3	1.7	2.0	2.0	2.1	0.0	14.8	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	0.0	2.4	2.3	2.3	1.7	2.0	2.0	2.1	0.0	14.8	
Initial Spares													
Total Proc Cost	0.0	0.0	0.0	2.4	2.3	2.3	1.7	2.0	2.0	2.1	0.0	14.8	
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:** The program provides the Army with the capabilities of ADP support to the Deployed Counterintelligence assets for immediate intelligence information in support of the Land Component Commander.

**JUSTIFICATION:** Funding is required to support the development and recapitalization of the Defense Counterintelligence Integrated Information System (DCIIS) funds will procure DODIIS-compliant Counterintelligence and Human Intelligence workstations using migration platforms such as the Migration Defense Intelligence Threat Data System. Funds will support 21 large sites (MACOMs), 52 medium sites (Installations and Force Projection Brigades), and 253 small sites (detachments in support EAC and ECB organizations).

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998								
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:									
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												TSEC - ARMY KEY MGT SYS (AKMS) (BA1201)									
Program Elements for Code B Items:												Other Related Program Elements:									
Code:		A		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		To Complete		Total Prog	
Proc Qty																					
Gross Cost		14.9				4.6		10.3		6.5		1.7		48.6		51.6				138.2	
Less PY Adv Proc																					
Plus CY Adv Proc																					
Net Proc (P-1)		14.9				4.6		10.3		6.5		1.7		48.6		51.6				138.2	
Initial Spares																					
Total Proc Cost		14.9				4.6		10.3		6.5		1.7		48.6		51.6				138.2	
Flyaway U/C																					
Wpn Sys Proc U/C																					

**DESCRIPTION:**  
 Army Key Management System (AKMS) is the Army's system to integrate the functions of Communications Security (COMSEC) key management control and distribution, Electronic Counter-Countermeasures (ECCM) generation and distribution and Signal Operation Instructions (SOI) management into a single automated system. AKMS will electronically generate and distribute Army key and key-related material, thereby limiting adversarial access to, and reducing the vulnerability of, Army C4I systems. AKMS capabilities will also increase operational flexibility and reduce force response time. It provides communications and network planning with key management on a single platform. AKMS is part of the management/support infrastructure for the Warfighter Information Network - Terrestrial (WIN-T) program, which provides critical functions for the Army's digital systems and Force XXI digitization effort.

**JUSTIFICATION:**  
 FY 99 funds will procure Data Transfer Devices (DTD's), continue the upgrade to the CHS workstations, and provide for the associated government and contractor engineering support and fielding. The DTD which hosts two versions of software, the Automated Net Control Device (ANCD) and the Key Distribution Device (KDD), will be fielded with the SINGGARS radio and to other non-SINGGARS users. The FY 99 funds will help meet the Basis Of Issue Plan (BOIP) requirements to field DTDs to Reserve Component Units.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: TSEC - ARMY KEY MGT SYS (AKMS) (BA1201)			Weapon System Type:			Date: February 1998		
ID	CD	OPA Cost Elements	FY 96			FY 97			FY 98			FY 99		
			TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
		1. Data Transfer Device										4003	4003	1
		2. Govt Engineering							715			710		
		3. Contractor Engineering							850			875		
		4. Documentation							250			200		
		5. Fielding							915			933		
		6. CHS Upgrade Workstation							1352	104	13	3594	276	13
		7. CHS Transit Case							494	215	2			
		<b>TOTAL</b>							<b>4576</b>			<b>10315</b>		

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature: TSEC - ARMY KEY MGT SYS (AKMS) (BA1201)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revis Avail	RFP Issue Date
1. Data Transfer Device										
FY 99	TBS	FP/OPT	NSA	Dec-98	Jul-00	4003	1	YES		
2. CHS Upgrade Workstation *										
FY 98	GTE, Taunton MA	FP/OPT	CECOM	Feb-98	Feb-99	104	13	YES		
FY 99	GTE, Taunton MA	FP/OPT	CECOM	Feb-99	Feb-00	276	13	YES		
<b>REMARKS:</b> Funding for FY98 contract option of CHS Transit Case includes Mass Storage Expansion Units (MSEU) Operational Transit Cases and mounting assembly not available/negotiated during FY97 CHS Upgrade (Workstation) buy. These will be delivered in Feb 99 with the CHS Upgrade Workstations ordered in Feb 98.  * Commercial off-the-shelf equipment procured on the CHS-2 contract Due to a significant increase in BOJP requirements the LCMS Phase IV update has been deferred to FY00 in order to buy DTDs in FY99.										





[illegible]



Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												INFORMATION SYSTEM SECURITY PROGRAM - IS (TA0600)
Code:												Other Related Program Elements:
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty												
Gross Cost	57.5	13.4	10.6	19.8	29.7	29.3	30.4	26.6	25.9		256.6	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	57.5	13.4	10.6	19.8	29.7	29.3	30.4	26.6	25.9		256.6	
Initial Spares												
Total Proc Cost	57.5	13.4	10.6	19.8	29.7	29.3	30.4	26.6	25.9		256.6	
Flyaway U/C												
Wpn Sys Proc U/C												

**DESCRIPTION:** Funds the Army's Information System Security (INFOSEC) Program (ISSP). Provides communication security, cryptosecurity, transmission security, emission security, and computer security equipment and products as a means for protecting telecommunications and information systems which process classified, mission sensitive, national security, and related sensitive information. Prevents exploitation through intercept, unauthorized electronic access, or related technical intelligence threats. Ensures authenticity, integrity, protection and availability of information transmitted by information systems.

**JUSTIFICATION:** FY 99 funds buy:

Tactical-Secure Terminal Equipment (T-STE) to provide INFOSEC transparent to the soldier and solutions for TOP SECRET/Special Intelligence subscribers to echelons above and below corps communication systems. T-STE is needed now to resolve problems of secure interface of strategic, tactical, and commercial communication systems as identified by the Joint Staff (J6) in the Multiservice Communications Electronics Board (MCEB) in August 1993/March 1996. AIRTERM KY-100 to protect tactical communications for attack helicopters and fixed wing aircraft. Firewalls, Taclane KG-175 Guards, and High Assurance Guard to secure Army's portion of the Defense Information Infrastructure. Army Key Management System, Tier 1, Secure Trusted Local Area Network for managing Army's automated Electronic Key, Communication Security (COMSEC) and INFOSEC material. New equipment training, first destination transportation, and consumable parts for total package fieldings.

IDENTIFICATION CODE: A

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: INFORMATION SYSTEM SECURITY PROGRAM - IS (TA0600)				Weapon System Type:		Date: February 1998	
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99					
ID	CD		TotalCost \$000	Qty Each	UnitCost \$00	TotalCost \$000	Qty Each	UnitCost \$00	TotalCost \$000	Qty Each	UnitCost \$00	TotalCost \$000	Qty Each	UnitCost \$00
1.	A	KOK-22 Key Processor	2787	277	101	1581	85	186						
2.	A	KOK-22 Transit Case				414	860	5						
3.	A	KOK-22 Environmental Case				250	44	57						
4.	A	Local COMSEC Management Software	182	454	4									
5.	A	Army Key Management Sys Workstation	20	2	100	745	160	47						
6.	A	Tactical Secure Terminal Equipment				4286	1176	36	3994	1072		7450	2000	37
7.	A	Tactical Secure Terminal Equipment				4593	1233	37						
8.	A	Lightweight Portable Power Supply	4275	1644	26									
9.	A	FORTEZZA Plus				1124	3746	3						
10.	A	Firewalls							2826	98	288	14000	280	500
11.	A	High Assurance Guard										360	6	600
12.	A	Taqlane KG-175										2300	270	85
13.	A	KGR-68	70	11	64									
14.	A	AIRTERM KY-100							3186	331	96			
15.	A	AIRTERM KY-100 Mods	2188			370								
16.	A	Data Transfer Device Mod				2200								
17.	A	Boundary Security Software							374			304		
18.	A	Army Key Management System Tier 1				2424			2205			3500		
19.	A	Command and Control Protection				1650								
20.	A	Fielding	1120			152			818			1800		
TOTAL			10642			19789			13403			29714		

Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:		P-1 Line Item Nomenclature: INFORMATION SYSTEM SECURITY PROGRAM - IS (TA0600)						
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$OO	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
1. KOK-22 Key Processor FY 96 FY 97		Lockheed Martin, Camden, NJ Lockheed Martin, Camden, NJ		Option MIPR	NSA, Ft Meade, MD NSA, Ft Meade, MD	Feb-96 Dec-96	Feb-97 Jan-97	277 85	101 186	Yes Yes	No No	
2. KOK-22 Transit Case FY 97		NSA, Ft Meade, MD		MIPR	NSA, Ft Meade, MD	May-97	Sep-97	860	5	Yes	No	
3. KOK-22 Environmental Case FY 97		Tobyhanna Army Depot, PA		MIPR	NSA, Ft Meade, MD	Feb-97	Sep-97	44	57	Yes	No	
4. Local COMSEC Management Software FY 96		Lockheed Martin, Camden, NJ		Option	NSA, Ft Meade, MD	Feb-96	Feb-97	454	4	Yes	No	
5. Army Key Management Sys Workstation FY 96 FY 97		TELOS, Washington, DC TELOS, Washington, DC		IDIQ IDIQ	CECOM, Ft Monmouth, NJ CECOM, Ft Monmouth, NJ	Jul-96 Feb-97	Sep-96 Jul-97	2 160	100 47	Yes Yes	No No	
6. Tactical Secure Terminal Equipment FY 97 FY 98 FY 99		Lockheed Martin, Camden, NJ Lockheed Martin, Camden, NJ Lockheed Martin, Camden, NJ		IDIQ IDIQ IDIQ	NSA, Ft Meade, MD NSA, Ft Meade, MD NSA, Ft Meade, MD	Dec-96 Mar-98 Oct-98	Jan-98 Jul-98 Jul-99	1176 1072 2000	36 37 37	Yes Yes Yes	No No No	
7. Tactical Secure Terminal Equipment FY 97		Lockheed Martin, Camden, NJ		IDIQ	NSA, Ft Meade, MD	Jul-97	Apr-98	1233	37	Yes	No	
REMARKS: National Security Agency (NSA) U.S. Army Communications Electronics Command (CECOM) Military Departmental Purchase Request (MIPR) Indefinite Delivery Indefinite Quantity (IDIQ)												

Exhibit P-5a, Budget Procurement History and Planning											
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature: INFORMATION SYSTEM SECURITY PROGRAM - IS (TA0600)						
WBS Cost Elements: Fiscal Years		Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$OO	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
8. Lightweight Portable Power System FY 96		Lucent, Raleigh-Durham, NC	IDIQ	NSA, Ft Meade, MD	Jan-96	Feb-98	1644	26	Yes	No	
9. FORTEZZA Plus FY 97		Mykotronx, Torrance, CA	Option	NSA, Ft Meade, MD	Sep-97	Mar-98	3746	3	Yes	No	
10.Firewalls FY 98		ESR, Richmond, VA	BPA	CECOM, Ft Huachuca, AZ	Dec-97	Jan-98	98	288	Yes	No	
FY 99		TBS	BPA	CECOM, Ft Huachuca, AZ	Oct-98	Jan-99	280	500	Yes	No	
11.High Assurance Guards FY 99		TBS	IDIQ	NSA, Ft Meade, MD	Oct-98	Jan-99	6	600	Yes	No	
12.Taclane KG-175 FY 99		TBS	IDIQ	NSA, Ft Meade, MD	Oct-98	Jan-99	270	85	Yes	No	
13.KGR-68 FY 96		NSA, Ft Meade, MD	MIPR	NSA, Ft Meade, MD	May-96	Jun-96	11	64	Yes	No	
14.AIRTERM KY-100 FY-98		ITT, Ft Wayne, IN	Option	NSA, Ft Meade, MD	Jun-98	May-99	331	96	Yes	No	
REMARKS:		National Security Agency (NSA) General Services Administration (GSA) Military Interdepartmental Purchase Request (MIPR) Indefinite Delivery Indefinite Quantity (IDIQ) U.S. Army Communications Electronics Command (CECOM) Blanket Purchase Agreement (BPA) To Be Selected (TBS)									





















Exhibit P-40, Budget Item Justification Sheet											Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		TERRESTRIAL TRANSMISSION (BU1900)										
Program Elements for Code B Items:		Code:		Other Related Program Elements:								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	198.2	0.9	14.6	6.7	20.2	2.0	2.1	2.1	2.1	2.1	0.0	251.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	198.2	0.9	14.6	6.7	20.2	2.0	2.1	2.1	2.1	2.1	0.0	251.0
Initial Spares												
Total Proc Cost	198.2	0.9	14.6	6.7	20.2	2.0	2.1	2.1	2.1	2.1	0.0	251.0
Flyaway U/C												
Wpn Sys Proc U/C												

**DESCRIPTION:** This budget modernizes and integrates the digital communication operations within the Pacific and European Theaters. The architecture of the Defense Information Infrastructure (DII) will be reconfigured to accommodate the rapidly changing deployment and realignment of forces within the Pacific and European Theaters. This program is a component of the Army's seamless Enterprise Network that provides compatibility across operational systems. The modernization program supports force projection through technology insertion and evolutionary changes. The program will utilize emerging technological developments to capitalize on digital information systems throughout the worldwide DII. The theater Combatant Commanders require a robust infrastructure that will facilitate mobilization and sustainment of a deployed force.

The US Forces, Korea (USFK) requirements have been approved in the Extended Korea Improvement Program (EKIP) and the Korea Communications Infrastructure Upgrade (KCIU) by the Joint Chiefs of Staff (JCS). The EKIP and KCIU are JCS directed programs to strategically improve the ability to successfully defend Korea during periods of stress, increase survivability of C4I systems for the warfighter, increase information systems capacity to meet surge requirements, and improve the ability to reconstitute C4I systems. These programs also support command and control communications networks serving the Commander-in-Chief, US Forces and United Nations Command, Korea, and Commander-in-Chief, US Forces, Japan. The modernization of communications systems is essential for wartime capabilities in the Pacific staging areas of Korea and Japan.

Exhibit P-40C Budget Item Justification Sheet				Date
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature		February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		TERRESTRIAL TRANSMISSION (BU1900)		
Program Elements for Code B Items		Code	Other Related Program Elements	
		A		
<p>The Digital European Backbone (DEB) Programs realign the DII in Europe to comply with mandates of the Conventional Forces, Europe agreement and the Base Realignment and Closure (BRAC) Acts. Alignments convert manpower intensive stations to unattended operations. This program utilizes assets that are recovered from sites closed in prior years to replace operating systems which are no longer logistically supportable.</p> <p>Systems/programs supported by this program include the European Telephone System, Defense Switched Network and Defense Data Network. EUCOM's communications requirements as put forth to DA and DOD have necessitated the redesign of the Defense Information Systems Network (DISN) - Europe architecture.</p> <p><b>JUSTIFICATION:</b> The dramatic changes in the Pacific area have increased the demands to improve the survivability, capacity and reconstitution capabilities of communications in Korea. FY 99 funding enhances the readiness of U.S. Forces in Korea and provides the warfighters with a more robust, survivable, capable command, control, communications and computer (C4) infrastructure for Pacific area deployments. Funding provides for the completion of the Digital Microwave Upgrade as identified in the EKIP Program.</p> <p>The goal for the Defense Information Systems Network (DISN) - Europe is an integrated, survivable network that provides voice, data, messaging, video and transmission services to the warfighter through the application of emerging technology such as ATM and SONET. FY99 funds will be utilized for initial engineering/survey efforts to accomplish the required upgrades as defined by EUCOM.</p>				

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: TERRESTRIAL TRANSMISSION (BU1900)		Version 2		Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99			
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	
TERRESTRIAL TRANSMISSION EUROPE		5880			904			912			1060
TERRESTRIAL TRANSMISSION PACIFIC		8769			5788			19325			893
		14649			6692			20237			1953
<div>NOTE:</div> <div>FY96. Of the \$14649 for FY96, \$5880 was provided to Terrestrial Transmission Europe (BU2000) and \$8769 was provided to Terrestrial Transmission Pacific (BU2100)</div> <div>FY98. Of the \$20237 for FY98, \$912 was provided to Terrestrial Transmission Europe (BU2000) and \$19325 was provided to Terrestrial Transmission Pacific (BU2100)</div>											

NOTE:

FY96. Of the \$14649 for FY96, \$5880 was provided to Terrestrial Transmission Europe (BU2000) and \$8769 was provided to Terrestrial Transmission Pacific (BU2100)

FY98. Of the \$20237 for FY98, \$912 was provided to Terrestrial Transmission Europe (BU2000) and \$19325 was provided to Terrestrial Transmission Pacific (BU2100)





Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:		P-1 Line Item Nomenclature: TERRESTRIAL TRANSMISSION (BU2000)			
WBS Cost Elements: Fiscal Years				Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000
Engineer, Furnish, Install, & Test /Staging Spt									
FY 96				AMC EUROPE	CECOM	Dec-95	Jan-96	1	75
FY 97				AMC EUROPE	CECOM	Dec-96	Jan-97	1	50
FY 98				AMC EUROPE	CECOM	Dec-97	Jan-98	1	50
FY 99				AMC EUROPE	CECOM	Dec-98	Jan-99	1	50
Reutilization of Assets									
FY 98				TOBYHANNA ARMY DEPOT, PA	CECOM	Jan-98	May-98	1	35
FY 99				TOBYHANNA ARMY DEPOT, PA	CECOM	Jan-99	May-99	1	35
Army Maintenance Supply Facility (AMSF) Spt									
FY 96				5TH SIGNAL CMD	CECOM	Mar-96	Mar-96	1	15
FY 97				5TH SIGNAL CMD	CECOM	Mar-97	Mar-97	1	15
FY 98				5TH SIGNAL CMD	CECOM	Mar-98	Mar-98	1	15
FY 99				5TH SIGNAL CMD	CECOM	Mar-99	Mar-99	1	15
EI&T Mannheim - Donnersberg Link									
FY 96				VAR*	VAR*	Feb 96	Mar-96	VAR	VAR
HP-1000/JOint European Monitoring System (JEMS) replacement program.									
FY 96				TOBYHANNA ARMY DEPOT, PA	CECOM	Jun-96	Aug-96	1	18
EI&T Hanau - Feldberg									
FY 97				VAR*	VAR*	Dec-96	Jan-97	VAR	VAR
FY 98				VAR*	VAR*	Nov-97	Dec-97	VAR	VAR
REMARKS: WR - Work Request * Material/services provided by Tobyhanna Army Depot, 504th SignalBn, Info Sys Engrg Cmd, Defense Distribution Region-West, European District Engineers, and 5th Signal Command. CECOM - Communications-Electronics Command									

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998			
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics				Weapon System Type:			P-1 Line Item Nomenclature:				Version 2			
Equipment				Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
WBS Cost Elements:				Fiscal Years										
Valhingen Matrix Switch FY 97				GENERAL SIGNAL, Mt Laurel, NJ		C/FP	CECOM	Apr-97	Jun-97	1	498			
Site Prep for DCS Facility - Hanau DII (5th Sig Cmd FY96				STAATLICHES HOCHBAUMT		SS/FP	WIESBADEN DOC	Feb-96	Apr-96	1	951			
Initial DISN Upgrade FY 99				TBS		C/FP	CECOM	Nov-98	Feb-99	VAR	VAR			
DESERT FOCUS INITIATIVES Microwave Systems FY96				COE, WINCHESTER, VA		MIPR	USASC	Sep-96	Oct-96	1	506			
Switching Systems FY96				GTE GOV'T SYS CORP NEEDHAM, MA		C/FP	USASC	Sep-96	Oct-96	VAR	VAR			
Technical Communications Facility FY96				VAR**		MIPR	PM TS	VAR*	VAR*	VAR	VAR			
REMARKS:														
COE - Corps of Engineers														
USASC - US Army Systems Command														
PM TS - Project Manager Transmission Systems														
VAR** - Pulse Engineering, Beltsville, MD;Black Box, Lawrence, PA;Trompeter, West Lake Village, CA;ADC Telecom Ind, Portland, OR;Primary Telecom Ind, Falls Church, VA;Anixter, Tempe, AZ;Time Electronics, Tempe, AZ;Charles Industry, Rolling Meadows, IL;Information Electronics, St. Simons Island, GA;Telos Systems Integration, Ashburn, VA;Lockheed Martin Federal Systems, Oswego, NY														

Date: February 1998

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: TERRESTRIAL TRANSMISSION PACIFIC (BU2100)				Version 2		Weapon System Type:		Date: February 1998	
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99							
ID	CD		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each
		PACIFIC: Extended Korean Improvement Program [EKIP]* Defense Info Infrastructure Contingency Satellite (DSAT)	49	1	49											
	A	KT / DACOM Interconnect	670	1	670											
	A	20 ft. Antennas	1575	9	175											
	A	Digital Patch & Access Sys (DPAS) Upgrade	220	1	220											
	A	Digital Microwave Phase I - Engineering	160	1	160											
	A	Digital Microwave Phase I - EFI&T	2064	1	2064	10	1	10								
	A	Technical Control Analysis Element	2000	1	2000	110	1	110								
	A	Tactical Strategic Interface	331	VAR	VAR	17	1	17								
	A	Digital Microwave Phase II - EFI&T	340	1	340	2497	1	2497	5835	1	5835	440	1			440
	A	Network and Systems Management	1360	VAR	VAR	390	VAR	VAR								
	A	Emergency Action Facility (EAF) Upgrade				2080	VAR	VAR	3109	1	3109					
	A	CC Seoul/Tango Audio Visual Upgrade				660	1	660								
	A	Korea Comm Infrastructure Upgrade							8700	1	8700					
	A	Battlefield Visualization System							1681	1	1681					
	A	SATCOM Data Controller				21	2	11								
		Engineering										117	VAR			VAR
		Project Management										336	VAR			VAR
		TOTAL	8769			5785			19325			893				

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:		P-1 Line Item Nomenclature: TERRESTRIAL TRANSMISSION PACIFIC (BU2100)			
Date: February 1998				Version 2					
WBS Cost Elements: Fiscal Years				Contract Method and Type		Location of PCO		Award Date	
PACIFIC: Extended Korean Improvement Program [EKIP]*				Contractor and Location		Date of First Delivery		QTY	
Defense Info Infrastructure Contingency Satellite (DSAT)				EIGHTH US ARMY		PM DCATS		1	
FY 96				EIGHTH US ARMY		PM DCATS		1	
KT / DACOM Interconnect				HARRIS CORP ,MELBOURNE, FL		CECOM		9	
FY 96				AT&T NETWORK SYSTEMS		AIR FORCE		1	
20 ft. Antennas				INFO SYS ENGRG CMD		PM DCATS		1	
FY 96				CRITICOM, LANHAM, MD		NAVY		1	
Digital Patch & Access Sys (DPAS) Upgrade				CRITICOM, LANHAM, MD		NAVY		1	
FY 96				GENERAL SERVICES ADMIN		CECOM		1	
Digital Microwave Phase I - Engineering				GENERAL SERVICES ADMIN		CECOM		1	
FY 96									
Digital Microwave Phase I - EF&T									
FY 96									
FY 97									
Technical Control Analysis Element									
FY 96									
FY 97									
REMARKS:				PM DCATS - Program Manager, Defense Communications and Army Transmission Systems AT&T Network Systems, Fairfax, VA					

Date: February 1998

Version 2  
TERRESTRIAL TRANSMISSION PACIFIC (BU2100)

Specs Avail Now? Date Revisn Avail  
RFP Issue Date

Unit Cost \$000	QTY	Date of First Delivery	Award Date	Location of PCO	Contract Method and Type	Contractor and Location	WBS Cost Elements:
49	1	May-96	Apr-96	PM DCATS	MIPR	EIGHTH US ARMY	Defense Info Infrastructure Contingency Satellite (DSAT)
670	1	Jun-96	Apr-96	PM DCATS	MIPR	EIGHTH US ARMY	KT / DACOM Interconnect
175	9	Nov-96	VAR	CECOM	C/FP	HARRIS CORP, MELBOURNE, FL	20 ft. Antennas
220	1	May-96	Mar-96	AIR FORCE	C.FP	AT&T NETWORK SYSTEMS	Digital Patch & Access Sys (DPAS) Upgrade
160	1	Mar-96	Jan-96	PM DCATS	MIPR	INFO SYS ENGRG CMD	Digital Microwave Phase I - Engineering
2064	1	Nov-96	Aug-96	NAVY	C/FP	CRITICOM, LANHAM, MD	Digital Microwave Phase I - EF&T
10	1	Aug-97	Aug-97	NAVY	C/FP	CRITICOM, LANHAM, MD	FY 97
2000	1	Nov-96	Aug-96	CECOM	C/FP	GENERAL SERVICES ADMIN	Technical Control Analysis Element
110	1	Jan-97	Nov-96	CECOM	C/FP	GENERAL SERVICES ADMIN	FY 96
							FY 97

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# Exhibit P-5a, Budget Procurement History and Planning

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:				P-1 Line Item Nomenclature: TERRESTRIAL TRANSMISSION PACIFIC (BU2100)				Date: February 1998	
WBS Cost Elements: Fiscal Years				Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	Version 2 RFP Issue Date	
Tactical Strategic Interface FY 96 FY 97				MIPR MIPR	PM DCATS PM DCATS	Apr-96 Apr-97	Jun-96 Apr-97	VAR 1	VAR 17				
Digital Microwave Phase II - E&I T FY 96 FY 97 FY 98 FY 99				C/FP C/FP C/FP CFP	NAVY CECOM CECOM CECOM	Aug-96 Aug-97 Nov-97 Nov-98	Nov-96 Nov-97 Dec-97 Dec-98	1 1 1 1	340 2497 5835 440				
Network and Systems Management FY 96 FY 97				VAR VAR	VAR* VAR*	Jun-96 Nov-96	Aug-96 Jan-97	VAR VAR	VAR VAR				
Emergency Action Facility (EAF) Upgrade FY 97 FY 98				VAR MIPR	VAR** CECOM	Feb-97 Dec-97	Apr-97 Mar-98	VAR 1	VAR 3109				
CC Seoul/Tango Audio Visual Upgrade FY 97				C/FP	CECOM	Jan-97	Mar-97	1	660				
Korea Comm Infrastructure Upgrade FY 98				C/FP	CECOM	Mar-98	Jul-98	1	8700				
Battlefield Visualization System FY 98				C/FP	CECOM	Feb-98	May-98	1	1681				
REMARKS:				*Various Navy and Air Force and DDRW contracts. ** Various NASA, PM STCCS and Eighth US Army contracts.									

Exhibit P-5a, Budget Procurement History and Planning															
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment						Weapon System Type:		Date: February 1998							
WBS Cost Elements: Fiscal Years						P-1 Line Item Nomenclature: TERRESTRIAL TRANSMISSION PACIFIC (BU2100)				Version 2					
						Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$OOO	Specs Avail Now?	Date Revisn Avail	RFP Issue Date	
SATCOM Data Controller FY 97						VIASAT, INC,CARLSBAD, CA	C/FP	CECOM	Aug-97	Sep-97	2	11			
REMARKS:															

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Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												BASE SUPPORT COMMUNICATIONS (BU4160)
Code:												Other Related Program Elements:
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	151.6	1.2	4.3	2.6	1.8	1.1	1.9	1.9	1.9	2.0	0.0	170.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	151.6	1.2	4.3	2.6	1.8	1.1	1.9	1.9	1.9	2.0	0.0	170.4
Initial Spares												
Total Proc Cost	151.6	1.2	4.3	2.6	1.8	1.1	1.9	1.9	1.9	2.0	0.0	170.4
Flyaway U/C												
Wpn Sys Proc U/C												

**DESCRIPTION:** This budget line funds Armywide requirements for base support radio systems, and test, measurement and diagnostic equipment (TMDE) for US Army Signal Command (USASC). Base support radios are used by installation military police, fire departments, medical personnel and other emergency-response activities to coordinate critical response to time sensitive emergencies and for support during mobilization, deployment and split-based operations. Base support radio systems will permit users to share frequencies, thus conserving scarce radio spectra and will provide secure voice/data transmission and access to local telephone systems from portable hand-held radios. The Federal Communications Commission (FCC) and National Telecommunications Information Administration (NTIA) have drastically reduced the available frequencies throughout CONUS. In Korea, the Ministry of Communications (MOC) will implement Phase 2 changes to operational bandwidth and channel separation criteria for Very High Frequency (VHF), Commercial Land Mobile Radios (CLMR) by FY 04, at which time existing radios will be obsolete because they cannot be modified to add the new frequency. Mission capability of law enforcement, security and other base forces during mobilization, deployment and split-base operations would also be greatly constrained without adequate communications capability. This program also supports the replacement of obsolete, non-supportable TMDE and interim mission support for command, control, communications and computers worldwide. The USASC TMDE inventory consists of general purpose and special purpose test equipment. This command's capability is maintained through phased replacement of obsolete, non-supportable TMDE. Additionally, long lead times for acquisition of new TMDE results in this program supporting interim acquisition of special purpose TMDE to satisfy mission requirements. Densities of TMDE supported by this program are determined by Defense Information Systems Agency (DISA) standards and maintenance support plans for information systems.

**JUSTIFICATION:** FY99 funds upgrade or replace base support radio systems that US Forces Command (FORSCOM) and Eighth US Army (EUSA) have identified as critical requirements. Based on the USASC 5-Year TMDE Acquisition Plan, FY 99 funds will purchase replacement TMDE, which include such items as transmission test sets, plotters/recorders, spectrum analyzers, signal sources and interim support of specialized test equipment which is authorized by approved documents. Interim support includes procurement of local area network/wide area network (LAN/WAN) diagnostic equipment and fiber optic test equipment. These funds will also provide replenishment and for rebuild of high-dollar, unique test equipment that has been deemed irreparable through standard Army repair systems. All procurements are designed to satisfy increases in authorization levels due to expanded mission requirements based upon critical need and the five year TMDE Acquisition Plan.



Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: BASE SUPPORT COMMUNICATIONS (BU4160)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
TMDE Replacement/Quality Assurance TMDE	A	873	VAR	VAR	637	VAR	VAR	570	VAR	VAR	674	VAR	VAR
Non-Tactical Trunked Radio Sys [FORSCOM]	A	900	1	900	1654	VAR	VAR	289	VAR	VAR	291	VAR	VAR
Secure Digital Non-Tactical Radio Sys [MDW]	A	1122	VAR	VAR									
Commercial Land Mobile Radio Sys [EUSA]	A	541	1	541	343	1	343	163	1	163	159	1	159
Public Safety Communications System [AMC]	A	138	VAR	VAR									
Non-Tactical Radio Sup (Pentagon)	A	750	VAR	VAR				800	VAR	VAR			
EUCOM Secure Communications Capabilities Upgrade	A												
TOTAL		4324			2634			1822			1124		

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					Date: February 1998				
WBS Cost Elements: Fiscal Years					P-1 Line Item Nomenclature: BASE SUPPORT COMMUNICATIONS (BU4160)				
Contractor and Location					Weapon System Type:				
Contract Method and Type					Location of PCO				
Award Date					Date of First Delivery				
QTY					Unit Cost \$000				
Specs Avail Now?					Date Revis Avail				
RFP Issue Date									
TMDE Replacement/Quality Assurance TMDE									
FY 96	VAR *	CECOM	VAR *	VAR *	VAR *	VAR	VAR		
FY 97	VAR *	CECOM	VAR *	VAR *	VAR *	VAR	VAR		
FY 98	VAR *	CECOM	VAR *	VAR *	VAR *	VAR	YES	NO	
FY 99	VAR *	CECOM	VAR *	VAR *	VAR *	VAR	YES	NO	
Non-Tactical Trunked Radio Sys [FORSCOM]									
FY 96	MOTOROLA	CECOM	C/FP	Mar-96	Jun-96	VAR	900	YES	NO
FY 97	MOTOROLA	CECOM	*OPTION	Jan-97	Mar-97	VAR	1654	YES	NO
FY 98	MOTOROLA	CECOM or Installation	*OPTION	Dec-97	Mar-98	VAR	289	YES	NO
FY 99	MOTOROLA	CECOM or Installation	*OPTION	Dec-98	Mar-99	VAR	291	YES	NO
Secure Digital Non-Tactical Radio Sys[MDW]									
FY 96	MOTOROLA	Ft. Meade, MD	C/FP	Dec-95	Mar-96	VAR	VAR		
Commercial Land Mobile Radio Sys [EUSA]									
FY 96	MOTOROLA	USACCK	C/FP	Sep-96	Jan-97	1	541	YES	NO
FY 97	MOTOROLA	USACCK	C/FP	Mar-97	Jul-97	1	343	YES	NO
FY 98	MOTOROLA	USACCK	C/FP	Dec-98	Apr-98	1	163	YES	NO
FY 99	MOTOROLA	USACCK	C/FP	Dec-98	Apr-99	1	159	YES	NO
Public Safety Communications System [AMIC]									
FY 96	MOTOROLA	TACOM	C/FP	Nov-96	Jan-97	VAR	VAR	YES	NO
REMARKS:					VAR* Denotes TMDE effort which provides replacement test equipment to support the 9th Army Signal Command Mission. State-of-the-art test equipment is contracted from a variety of Test, Measurement, & Diagnostic Equipment (TMDE) manufacturers for various sites. *Option-FORSCOM costs to purchase 3rd year lease or lease to purchase contract. Motorola, Hanover, MD USACCK - US Army Contracting Center, Korea TACOM - Tank Automotive and Armaments Command				

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature: BASE SUPPORT COMMUNICATIONS (BU4160)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Non-Tactical Radio Support (Pentagon) FY 96	Motorola	C/FP	DSSW	Sep-97	Jan-98	VAR	VAR	YES	NO	
Secure Communications Capabilities Upgrade (EUCOM) FY 98	TBS	C/FP	DAO-CECOM	Aug-98	Oct-98	VAR	VAR	NO	NO	
<b>REMARKS:</b> VAR - Unit costs and quantities vary by configuration. Motorola - Hanover, MD DSSW - Defense Supply and Services, Washington, Arlington, VA										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:											
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		ARMY DISN ROUTER (BU0300)											
Program Elements for Code B Items:		Other Related Program Elements:											
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	38.7	2.9	5.6	2.1	2.9	3.6	3.8	4.5	5.1	6.7		75.9	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	38.7	2.9	5.6	2.1	2.9	3.6	3.8	4.5	5.1	6.7		75.9	
Initial Spares													
Total Proc Cost	38.7	2.9	5.6	2.1	2.9	3.6	3.8	4.5	5.1	6.7		75.9	
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:** The Army Defense Information System Network (DISN) Router Program (ADRP) addresses Army requirements for DISN connections. The DISN includes both the Unclassified IP Router Network (NIPRNET) and the Secret IP Router Network (SIPRNET). The ADRP includes the acquisition of routers, access servers, modems, and associated networking and management devices necessary to connect Army host computers, terminals and Local Area Networks (LANs) to the DISN. Program acquisition also includes installation, Installation Bill of Material (IBOM), training and maintenance. The routers and access servers are tailored to data requirements at each Army location and are expandable to meet changes in data requirements. The routers are also upgradable to future Army, DOD and industry standards. Reducing the number of connections required to support Army DISN requirements avoids multiple router connection charges with each associated DISN connection. The ADRP is an integral part of the Power Projection Command, Control, Communications, and Computer Infrastructure (P2C4I) initiative. The overall objectives of P2C4I are to: (1) support communications requirements of deployed forces and their access to home installation sustaining base systems, and (2) emplace information systems in a coordinated, synchronized, integrated manner, thereby optimizing funding/personnel resources and maximizing the operational benefits. P2C4I identifies the cooperative role and responsibility for installations in the active, direct execution of the National Military Strategy to project forces beyond the borders of the United States to anywhere in the world with little advance notice.

**JUSTIFICATION:** FY 99 funds add new capability in the DDN usage reduction effort, provide more capacity for data communication users and reduce the time to acquire services. FY 99 funds will procure 22 Routers and 23 Access Servers. FY 99 funds, also provide for the program management and engineering support to the ADRP.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No. OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: ARMY DISN ROUTER (BU0300)			Weapon System Type:			Date: February 1998		
OPA Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
Routers	A		3684	*40	VAR	1139	*12	VAR	1855	*20	VAR	2287	*22	VAR
Access Servers	A		333	*26	VAR	935	*18	VAR	1048	*21	VAR	1327	*23	VAR
Modems	A		694	*912	VAR									
Army Regional Transition Network (ARTNET)	A		900	1	900									
<b>TOTAL</b>			<b>5611</b>			<b>2074</b>			<b>2903</b>			<b>3614</b>		

\* Unit costs are site specific.

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: ARMY DISN ROUTER (BU0300)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Reven Avail	RFP Issue Date
<b>Routers **</b>										
FY 96	AIS	C/FP	WEST POINT DOC***	Mar-96	VAR*	40	VAR			
FY 97	MICROSTAR/OAO	C/FP	CECOM	Jan-97	VAR*	12	VAR			
FY 98	MICROSTAR/OAO	C/FP	CECOM	Mar-98	VAR*	20	VAR	YES		
FY 99	MICROSTAR/OAO	C/FP	CECOM	Mar-99	VAR*	22	VAR	YES	NO	
<b>Access Servers **</b>										
FY 96	AIS	C/FP	WEST POINT DOC***	Mar-96	VAR*	26	VAR			
FY 97	MICROSTAR/OAO	C/FP	CECOM	Feb-97	VAR*	18	VAR			
FY 98	MICROSTAR/OAO	C/FP	CECOM	Mar-98	VAR*	21	VAR	YES		
FY 99	MICROSTAR/OAO	C/FP	CECOM	Mar-99	VAR*	23	VAR	YES	NO	
<b>Modems **</b>										
FY 96	AIS	C/FP	WEST POINT DOC***	Mar-96	VAR*	912	VAR			
<b>Army Regional Transition Network (ARTNET)</b>										
FY 96	Electronic Data Sys Corp	C/FP	CECOM	Jun-96	VAR*	1	900			

REMARKS: AIS = Applied Info Service Inc., Somerset, NJ  
MICROSTAR, Jessup, MD  
EDS = Electronic Data Systems Corp, Herndon, VA  
OAO, Greenbelt, MD  
\* Multiple awards and delivery orders/dates throughout the FY.  
\*\* Site specific.  
\*\*\* Director of Contracts (DOC)

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												ELECTROMAG COMP PROG (EMCP) (BD3100)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	12.2	0.6	0.2	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.0	16.2	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	12.2	0.6	0.2	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.0	16.2	
Initial Spares													
Total Proc Cost	12.2	0.6	0.2	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.0	16.2	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION: The ELECTROMAGNETIC COMPATIBILITY PROGRAM (EMCP) ensures readiness and effectiveness of command control communications systems through the testing of tactical and strategic systems for electromagnetic compatibility (EMC) with other civil or defense communications-electronics (C-E) systems operating within their environment. This includes the need to conduct EMC surveys at proposed and existing C-E sites intended for upgrade or planning for frequency resources. This is done to avoid expensive reworking or retrofitting. Propagation engineering is required in designing new networks and C-E equipment. Unique computer models are developed, upgraded and maintained for calculating EMC, propagation predictions, and engineering analyses. These models perform systems analyses for: (1) line of sight; (2) high frequency skywave and groundwave; (3) meteor burst; (4) tropospheric scatter communications systems; (5) antenna performance; and (6) spectrum management.

JUSTIFICATION: The EMCP requires the procurement of the following replacement and enhancement equipment to sustain the program.

A. EMC MEASUREMENT EQUIPMENT: Used to conduct EMC surveys to characterize the electromagnetic environment. Surveys are used to measure spectrum occupancy, detect interference, and eliminate electromagnetic hazards.

B. SPECTRUM ANALYZERS: Display and record the frequency domain and transmission characteristics of the radio frequency signals acquired.

C. DIRECTOR OF INFORMATION MANAGEMENT (DOIM) ARMY INTERFERENCE RESOLUTION PROGRAM (AIRP) UPGRADE: These systems include hand-held direction finding equipment and computers to run frequency management software (AFSMS) and other electromagnetic interference (EMI) software to be supplied to Army DOIMs worldwide to resolve radio frequency interference (RFI) problems. These systems will reduce the utilization of limited resources by correcting RFI problems at the DOIM level.

Exhibit P-40C Budget Item Justification Sheet				Date	February 1998
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature			
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				ELECTROMAG COMP PROG (EMCP) (BD3100)	
Program Elements for Code B Items		Code	Other Related Program Elements		
<p><b>JUSTIFICATION (Continued):</b></p> <p>D. MICROWAVE PROPAGATION PREDICTION SYSTEM: Used to analyse the propagation characteristics and predict the reliability of a microwave communication system, including high data rate digital systems.</p> <p>E. ENGINEERING WORKSTATIONS AND PERIPHERALS: Buys computers and related equipment to perform propagation engineering analysis functions.</p> <p>F. SPECTRUM MONITORING EQUIPMENT: Buys a system that provides the capability to monitor frequency usage over a wide spectrum in real time.</p> <p>G. MEASUREMENT CONTROLLERS: Automates the performance at tests/measurements.</p>					



Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: ELECTRONOMAG COMP PROG (EMCP) (BD3100)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
EMC MEASUREMENT EQUIPMENT													
SPECTRUM ANALYZERS								131	VAR*	VAR	206	VAR*	VAR
DOIM AIRP UPGRADE								50	1	50	160	VAR*	VAR
MICROWAVE PROPAGATION PREDICTION								160	VAR*	VAR			
ENGINEERING WORKSTATIONS AND PERIPHERALS								34	2	17	80	VAR*	VAR
SPECTRUM MONITORING SYSTEMS								5	8	1	6	4	2
MEASUREMENT CONTROLLERS								50	1	50			
TOTAL		212			451			455			452		

Exhibit P-5a, Budget Procurement History and Planning										
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics					Weapon System Type:			Date: February 1998		
Equipment					P-1 Line Item Nomenclature: ELECTROMAG COMP PROG (EMCP) (BD3100)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
EMC MEASUREMENT EQUIPMENT	VAR**	C/FP	ISC Contracting	VAR	VAR	VAR	VAR*			
- FY 96	VAR**	C/FP	CECOM Contracting	VAR	VAR	VAR	VAR*			
- FY 97	TBS	C/FP	CECOM Contracting	VAR	VAR	VAR	VAR*			
- FY 98	TBS	C/FP	CECOM Contracting	VAR	VAR	VAR	VAR*			
- FY 99										
SPECTRUM ANALYZERS	TBS	C/FP	CECOM Contracting	Feb-98	Apr-98	1	50	Yes		
- FY 98	TBS	C/FP	CECOM Contracting	Feb-99	Apr-99	2	80	No		
- FY 99										
DOIM AIRP UPGRADE	Rhode & Schwarz	C/FP	CECOM Contracting	Feb-97	Jul-97	3	24			
- FY 97	Rhode & Schwarz	C/FP	CECOM Contracting	Feb-98	Aug-98	3	12			
- FY 98										
MICROWAVE PROPAGATION PREDICTION	TBS	C/FP	CECOM Contracting	Apr-98	Aug-98	2	34	Yes		
- FY 98	TBS	C/FP	CECOM Contracting	Feb-99	Jun-99	VAR	VAR*	No		
- FY 99										
ENGINEERING WORKSTATIONS & PERIPHERALS	GTSI	C/FP	ISC Contracting	Jan-96	Mar-96	10	5			
- FY 96	GTSI	C/FP	CECOM Contracting	VAR	VAR	VAR	VAR*			
- FY 97	TBS	C/FP	CECOM Contracting	Apr-98	Aug-98	2	4	Yes		
- FY 98	TBS	C/FP	CECOM Contracting	Apr-99	Aug-99	1	6	Yes		
- FY 99										
SPECTRUM MONITORING EQUIPMENT - FY 98	Hewlett-Packard	C/FP	CECOM Contracting	Oct-97	Nov-97	1	50			
- FY 98										
MEASUREMENT CONTROLLERS - FY 98	Dell Computer Corp.	C/FP	CECOM Contracting	Jan-98	Mar-98	5	25			
REMARKS: VAR* - Multiple contracts awarded throughout the year VAR** - TECOM, Inc., Chatsworth, CA; Cornell Labs, Canoga Park, CA; Hewlett-Packard, Palo Alto, CA Rhode & Schwarz, Inc., Manassas, VA 22110 GTSI, Chantilly, VA Hewlett-Packard, Palo Alto, CA Dell Computer Corp., Washington, DC										

Exhibit P-40, Budget Item Justification Sheet												
Appropriation / Budget Activity/Serial No:						Date:		February 1998				
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment						P-1 Item Nomenclature:		WW TECH CON IMP PROG (WWTCIP) (BU3610)				
Program Elements for Code B Items:						Code:		Other Related Program Elements:				
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	85.8	0.5	6.5	1.2	0.9	2.0	3.0	2.9	3.1	3.1	0.0	109.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	85.8	0.5	6.5	1.2	0.9	2.0	3.0	2.9	3.1	3.1	0.0	109.1
Initial Spares												
Total Proc Cost	85.8	0.5	6.5	1.2	0.9	2.0	3.0	2.9	3.1	3.1	0.0	109.1
Flyaway U/C												
Wpn Sys Proc U/C												

**DESCRIPTION:** The Worldwide Technical Control Improvement Program (WWTCIP) provides needed upgrades, expansion, and modernization of the Worldwide Defense Information Systems Network (DISN) technical control facilities in order to effect the integration and efficient operation of DCS digital transmission subsystems, and to reduce operating costs. This program provides DC power, timing and synch, line conditioning equipment, automatic technical control, digital patch and access system (DPAS), VF tactical interface, Defense Communication Systems TRI-TAC interface, and appropriate test equipment and associated hardware. WWTCIP supports worldwide communications transmission media and switching upgrades such as the Digital European Backbone (DEB), Korean Improvement Program, Japan Reconfiguration and Digitization, and Defense Satellite Communications. Program also funds the automation of Technical Control Facilities, as part of the Joint Chiefs of Staff (JCS) directed Korean C4I enhancements, under the Extended Korean Improvement Program (EKIP).

**JUSTIFICATION:** FY 99 funds will be used to install the matrix switch at Landstuhl, Germany. Although the Timing Systems have been upgraded with Global Positioning System receivers, the Clock Distribution Systems are antiquated and need to be replaced with logistically supportable and modern timing distribution systems. FY99 funds will facilitate upgrades at approximately 114 worldwide locations.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: WW TECH CON IMP PROG (WWTCIP) (BU3610)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	TotalCost	UnitCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Automation/Integration of Technical Controls (AITC) Equipment	A	4215	VAR	VAR	752	Var	VAR	200	VAR	VAR	VAR		
Bill of Materials	A	1280	VAR	VAR									
Yongsan Site Prep	A	164	1	164									
Engineering Survey - Ft. Bragg	A	77	1	77									
DCO Renovation - Ft. Bragg	A	586	1	586									
Tech Control Facility (TCF) Equip - Ft. Bragg	A	181	1	181									
AITC Engineering/Installation/Test	A	36	VAR	VAR	50	VAR	VAR						
Tech Control Facility - Install - Ft Bragg	A				373	VAR	VAR	221	1	221			
Tech Control Facility -Install - Ft Buckner	A							345	1	345			
Tech Control Facility - Install - Hanau	A							150	1	150			
Landstuhl Matrix Switch Installation												344	1
Timing and Synch Upgrades	A											1687	VAR
TOTAL		6539			1175			916				2031	

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					Date: February 1998				
WBS Cost Elements: Fiscal Years					P-1 Line Item Nomenclature: WW TECH CON IMP PROG (WWTCIP) (BU3610)				
Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Automation/Integration of Technical Controls									
FY 96	General Signal, Mt Laurel, NJ	C/FP	CECOM	VAR	Jul-96	VAR	VAR		
FY 97	General Signal, Mt Laurel, NJ	C/FP	CECOM	VAR	Jul-97	VAR	VAR		
FY98	General Signal, Mt Laurel, NJ	C/FP	CECOM	VAR	Dec-97	VAR	VAR	YES	
Bill of Materials									
FY 96	Tobyhanna Army Depot, PA	WR	CECOM	VAR	Apr-96	VAR	VAR		
Yongsan Site Prep									
FY96	1ST Signal Brigade	MIPR	PM DCATS	Jan-96	1	164			
Engineering Survey - Ft. Bragg									
FY96	SAIC	C/FP	INFO SYS ENGRG CMD	May-96	1	77			
DCO Renovation - Ft. Bragg									
FY 96	Corps of Engineers	MIPR	PM DCATS	Jul-96	1	586			
Tech Control Facility (TCF) Equip - Ft. Bragg									
FY 96	Tobyhanna Army Depot, PA	WR	CECOM	Jul-96	1	181			
AITC Engineering/Installation/Test									
FY 96	IN-HOUSE	MIPR	504TH SIGNAL BN	Feb-97	VAR	VAR	VAR		
FY 97	IN HOUSE	MIPR	INFO SYS ENGRG CMD	Nov-97	VAR	VAR	VAR		
Tech Control Facility -Install Ft Bragg									
FY97	IN-HOUSE	MIPR	504TH SIGNAL BN	Dec-97	1	373	YES		
FY98	TBS	C/FP	CECOM	Oct-98	1	221			
REMARKS: WR - Work Request PM DCATS - Project Manager, Defense Communications and Army Transmission Systems SAIC - Science Applications International Corp, Sierra Vista, AZ CECOM - Communications - Electronics Command									

# Exhibit P-5a, Budget Procurement History and Planning

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature: WW TECH CON IMP PROG (WWTCP) (BU3610)							
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date	
Tech Control Facility - Install Ft Buckner FY98	TBS	C/FP	CECOM	Jun-98	Aug-98	1	345	YES			
Tech Control Facility - Install Hanau FY98	TBS	C/FP	CECOM	May-98	Jul-98	1	150	YES			
Landstuhl Matrix Switch Installation FY99	TBS	C/FP	CECOM	Jan-99	Meb 99	1	344	YES			
Timing and Synch Upgrades FY99	TBS	C/FP	CECOM	Jan-99	Mar-99	*VAR	*VAR	YES			
REMARKS: * Site Specific											

Exhibit P-40, Budget Item Justification Sheet												
Appropriation / Budget Activity/Serial No:				Date:				February 1998				
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Item Nomenclature:				INFORMATION SYSTEMS (BB8650)				
Program Elements for Code B Items:				Code:				Other Related Program Elements:				
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	716.9	26.6	62.2	48.5	50.2	91.2	33.7	34.1	79.6	79.2		1222.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	716.9	26.6	62.2	48.5	50.2	91.2	33.7	34.1	79.6	79.2		1222.3
Initial Spares												
Total Proc Cost	716.9	26.6	62.2	48.5	50.2	91.2	33.7	34.1	79.6	79.2		1222.3
Flyaway U/C												
Wpn Sys Proc U/C												

**DESCRIPTION:** This budget line consolidates funding for improvement/modernization of Information Systems worldwide. It encompasses nontactical telecommunications services in support of Army base operations and Information Systems for Command and Control (C2) requirements. Also, it funds acquisition of common user information systems in support of Military Construction, Army (MCA) projects.

**JUSTIFICATION:** The Information Systems (CONUS/Western Hemisphere) program finances upgrades to the Army's telecommunication infrastructure. It includes the MACOM telephone Modernization Program (MTMP), an integral part of the Power Projection Command Control Communication Computer Infrastructure (P2C4I) initiative which supports the communications requirements of deployed forces and their access to home installation sustaining base systems. The Information Systems (CONUS/Western Hemisphere) program also finances information infrastructure investments and modernization to support the National Guard portion of the Army Distance Learning Program. The MTMP supports replacement of aging electromechanical switches with electronic digital switches to implement the Integrated Services Digital Network (ISDN) concept and insures compatibility with public networks. The Information Systems - MCA Support program finances acquisition of information systems equipment and switch expansion equipment to be installed in conjunction with military construction projects worldwide, which are not included in the MCA funding. The Information Systems - EUCOM program finances the procurement of hardware and software to replace aging communications equipment in an effort to streamline operations and maintenance costs, improve productivity and customer service, and reduce circuit costs in Europe. The Information Systems - PACOM program continues the transition to the ISDN for the Pacific Theater, which will provide intra-base information transfer capability and common data transmission in the place of costly individual stovepipe and non-standard networks.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: INFORMATION SYSTEMS (BB8650)				Weapon System Type:		Date: September 1997	
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99					
ID	CD		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
INFORMATION SYSTEMS (CONUS/WESTERN HE			47824			37857			43174			45794		
INFORMATION SYSTEMS (EUCOM)			6957			364			386			24921		
INFORMATION SYSTEMS (PACOM)			1611			778			829			10622		
INFORMATION SYSTEMS (MCA SUPPORT)			5843			9496			5804			9876		
TOTAL			62235			48495			50193			91213		



Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												INFORMATION SYSTEMS (CONUS/WESTERN HEM) (BB8700)
Code:												Other Related Program Elements:
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty												
Gross Cost	436.2	20.6	47.8	37.9	45.8	27.4	27.9	53.3	52.8		792.9	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	436.2	20.6	47.8	37.9	45.8	27.4	27.9	53.3	52.8		792.9	
Initial Spares												
Total Proc Cost	436.2	20.6	47.8	37.9	45.8	27.4	27.9	53.3	52.8		792.9	
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This budget line includes efforts in support of the MACOM Telephone Modernization Program (MTMP) and the European Telephone Switch (ETS) upgrades. MTMP is an integral part of the Power Projection Command, Control, Communications and Computers Initiative (PPC4I). The overall objective of PPC4I is to: (1) support communication requirements of deployed forces and their access to home installation sustaining base systems; and (2) to emplace Information Systems in a coordinated, synchronized, integrated manner, thereby optimizing funding/personnel resources and maximizing the operational benefits. PPC4I identifies the cooperative role and responsibility for installations in the active, direct execution of the National Military Strategy to project forces beyond the borders of the United States to anywhere in the world with little advance notice. The MTMP started in FY 83 to replace the old Dial Central Offices with state-of-the-art digital switches at CONUS Army installations. Upgrading telecommunications equipment insures the most effective interface with existing public telecommunications networks and optimizes the development of evolving Department of the Army programs. MTMP is also assigned with the implementation of the Integrated Services Digital Network (ISDN) within the Army, thus supporting the most efficient utilization of bandwidth.

The ETS network replacements in support of USCINCEUR and USAREUR switching requirements, as documented in CINCEUR letter dated 9 Oct 97 and USAREUR letter dated 20 Oct 97, supports the replacement of existing Army Siemens KNS-4100 switches with state-of-the-art switches as part of the overall DISN-EUR switch replacement program.

JUSTIFICATION: FY99 funds will provide upgrades for 29 each SL-100 MTMP switches with the MSL-07 versions software and new processors, making them Year 2K compliant. The replacement of the European switches is mandatory as stated by USCINCEUR in a memorandum to the Chairman of the Joint Chiefs of Staff of the Army. The requirement is to continue to provide telephone services to the warfighters in the European theater and provide connectivity to the Sustaining Base in CONUS. The existing switches will be unsupportable by Dec 2004 and repairing and maintaining these antiquated switches is not cost effective. The existing switches

<b>Exhibit P-40C Budget Item Justification Sheet</b>		Date February 1998
Appropriation / Budget Activity/Serial No. OTHER PROCUREMENT / 2 / Communications and Electronics Equipment	P-1 Item Nomenclature INFORMATION SYSTEMS (CONUS/WESTERN HEM) (BB8700)	
Program Elements for Code B Items	Code	Other Related Program Elements
<p>do not meet mission requirements today. If replacement switches are not installed by 2004, there will be no reliable telephone service to the warfighter in garrison and there will be no access available to the worldwide Defense Information System Network (DISN) for warfighters deployed in the field.</p>		

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: INFORMATION SYSTEMS (CONUS/WESTERN HEM) (BB8700)			Weapon System Type:			Date: February 1998		
ID	CD	OPA Cost Elements	FY 96			FY 97			FY 98			FY 99		
			TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
A		MACOM Telephone Modernization Program (MTMP): Digital Switching System	43563	* 5	VAR	7695	1	7695						
A		MTMP Options/Modifications	3107	*VAR	VAR	6484	*VAR	VAR	500	*VAR	VAR	500	*VAR	VAR
A		Year 2K Software/Hardware							12126	*VAR	VAR	35904	*VAR	VAR
A		EOC Upgrade - Ft Bragg (FORSCOM)	762	1	762									
A		HQ PBX System (MEPCOM)	392	1	392									
A		DISTANCE LEARNING (DCSOPS) Networks				14121	*VAR	VAR	18547	*VAR	VAR			
		Class Rooms				5757	*VAR	VAR	7419	*VAR	VAR			
		Operations				3800	*VAR	VAR	4946	*VAR	VAR			
A		DISN EUROPE Switch Upgrade										9390	*VAR	VAR
		<b>TOTAL</b>	<b>47824</b>			<b>37857</b>			<b>43174</b>			<b>45794</b>		

\*Quantity is purchased at various unit costs.

Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					Weapon System Type:			P-1 Line Item Nomenclature: INFORMATION SYSTEMS (CONUS/WESTERN HEM) (BB8700)				
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revis Avail	RFP Issue Date
MACOM Telephone Modernization Prog (MTMP)												
Digital Switching System												
FY 96		GTE		OPTION	CECOM	Jan-96	VAR *	5	VAR			
FY 97		GTE		OPT/C/FP	CECOM	Jan-97	VAR *	1	7695	YES	NO	
MTMP Options / Modifications												
FY 96		GTE		OPTION	CECOM	Mar-96	VAR *	VAR	VAR			
FY 97		GTE / HALIFAX		OPT/C/FP	CECOM	Mar-97	VAR *	VAR	VAR			
FY 98		GTE/HALIFAX		OPT/C/FP	CECOM	Apr-98	VAR *	VAR	VAR	YES		
FY 99		GTE/HALIFAX		OPT/C/FP	CECOM	Apr-99	VAR *	VAR	VAR	YES		
YEAR 2K SOFTWARE/HARDWARE UPGRADE												
FY 98		GTE/DSSMP		C/FP	CECOM	Oct-97	VAR*	13	VAR	YES	NO	
FY 99		GTE/DSSMP		C/FP	CECOM	Oct-98	VAR*	29	VAR	YES	NO	
EOC Upgrade - Ft. Bragg [FORSCOM]		NAWC		OPTION	FT. MCPHERSON	Mar-96	Oct-96	VAR	VAR			
FY 96												
HQ PBX System [MEPCOM]		AMSTAR		OPTION	GSA, Chicago	Jul-96	Dec-96	1	762			
FY 96												
DISTANCE LEARNING [DCSOPS]												
FY 97		VAR		C/FP	GSA Schedule	VAR	VAR	VAR	VAR	YES		
FY 98		VAR		C/FP	GSA Schedule	VAR	VAR	VAR	VAR			
DISN Europe Switch Upgrade		DSSMP		C/FP/OPT	CECOM	Apr-99	Oct-99	VAR	VAR	YES		
FY 99												
REMARKS: GTE, Needham, MA NAWC = Naval Air Warfare Center, St. Ignoces, MD AMSTAR, Frederick, MD * Multiple award and delivery dates throughout FY ** Site specific. Unit cost varies depending on switch size and use of new or relocated switch. DSSMP = Digital Switch Systems Modernization Program (19 Contracts)												

Exhibit P-40, Budget Item Justification Sheet											Date:	February 1998	
Appropriation / Budget Activity/Serial No:											P-1 Item Nomenclature:		
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment											INFORMATION SYSTEMS (EUCOM) (8B8800)		
Program Elements for Code 8 Items:											Other Related Program Elements:		
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	143.7	0.3	7.0	0.4	0.4	24.9	0.4	0.4	20.5	20.5		218.4	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	143.7	0.3	7.0	0.4	0.4	24.9	0.4	0.4	20.5	20.5		218.4	
Initial Spares													
Total Proc Cost	143.7	0.3	7.0	0.4	0.4	24.9	0.4	0.4	20.5	20.5		218.4	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION: The European Telephone Switch (ETS) network switch replacements in support of USCINCEUR and USAREUR switching requirements, as documented in CINCEUR letter dated 9 Oct 97 and USAREUR letter dated 20 Oct 97, supports the replacement of existing Army Siemens KNS-4100 switches with state-of-the-art switches as part of the overall DISN-EUR switch replacement program.

JUSTIFICATION: The replacement of the ETS switches is mandatory as stated by USCINCEUR in a memorandum to the Chairman of the Joint Chiefs of Staff and USAREUR in a memorandum to the Chief of Staff of the Army. The requirement is to continue to provide telephone services to the warfighters in the European theater and provide connectivity to the Sustaining Base in CONUS. The existing ETS switches will be unsupportable by Dec 2004. The existing ETS does not meet mission requirements today. If replacement switches are not installed by that time, there will be no reliable telephone service to the warfighter in garrison and there will be no access available to the worldwide Defense Information System Network (DISN) for warfighters deployed in the field. FY-99 funds will procure the replacement of switches in Europe.

(ID CODE A)

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: INFORMATION SYSTEMS (EUCOM) (BB8800)				Weapon System Type:		Date: February 1998	
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99					
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Communication Hardware/Software Upgrades	A		106	VAR	VAR	194	VAR	VAR	386	VAR	VAR	369	VAR	VAR
	A		4248	VAR	VAR	170	VAR	VAR						
	A		2603	VAR	VAR									
	A													
	A													
Desert Focus Initiatives:														
-Technical Communication Facility														
-Transmission Systems														
-Switching Systems														
European Switch Upgrade														
TOTAL			6957			364			386			24921		

# Exhibit P-5a, Budget Procurement History and Planning

Exhibit P-5a, Budget Procurement History and Planning													Date: February 1998	
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:		P-1 Line Item Nomenclature: INFORMATION SYSTEMS (EUCOM) (BB8800)								
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date		
Communication Hardware/Software Upgrades		DYNAMIC CORP		OPTION	HQ USAISC	Jul-96	Sep-96	VAR	VAR					
FY 96		INET		MIPR	AIR FORCE MATERIAL CM	Aug-97	Oct-97	VAR	VAR					
FY 97		ALCATEL		OPTION	5TH SIGNAL COMMAND	Mar-98	May-98	VAR	VAR	YES				
FY 98		ALCATEL		OPTION	5TH SIGNAL COMMAND	Mar-99	May-99	VAR	VAR	YES	NO			
Desert Focus Initiatives: -Transmission Systems		Tamimi		MIPR	COE	VAR*	VAR*	VAR	VAR					
FY96		VAR**		C/FP	PM TS	VAR*	VAR*	VAR	VAR					
FY96		TBS		MIPR	NISE EAST	Dec-97		VAR	VAR					
-Switching Systems		GTE		C/FP	PM SS	VAR*	VAR*	VAR	VAR					
FY 96														
- Technical Communication Facility		VAR***		MIPR	PM TS	VAR*	VAR*	VAR	VAR					
FY 97														
European Switch Upgrade		DSSMP		C/FP/OPT	USACECOM	Apr-99	Oct-99	VAR	VAR	NO				
FY 99														
REMARKS:														
Dynamic Corp, Burlington, MA				COE - Corps of Engineers				PM SS - Program Manager Switch Systems				GTE, Taunton, MA		
INET, Bethesda, MD				PM TS - Program Manager Transmission Systems				Tamimi, Dhahran, Saudi Arabia						
ALCATEL, Dallas, TX				NISE EAST - Naval Command Control and Ocean Surveillance Center In Service Engineering										
VAR*-multiple contracts awarded/delivered throughout year.				VAR**-Tobyhanna Army Depot (TOAD), Cumberland Army Depot, and Sharpe Army Depot										
VAR*** - Pulse Engineering, Beltsville, MD;Black Box, Lawrence, PA;Trompeter, West Lake Village, CA;ADC Telecom Ind, Portland, OR;Primary Telecom Ind, Falls Church, VA;Anixter, Tempe, AZ;Time Electronics, Tempe, AZ;Charles Industry, Rolling Meadows, IL;Information Electronics, St. Simons Island, GA;Telos Systems Integration, Ashburn, VA;Lockheed Martin Federal Systems, Oswego, NY														

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										INFORMATION SYSTEMS (PACOM) (BB8900)	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment													
Program Elements for Code B Items:		Other Related Program Elements:											
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	106.1	2.3	1.6	0.8	0.8	10.6	0.9	0.9	0.9	0.9		125.9	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	106.1	2.3	1.6	0.8	0.8	10.6	0.9	0.9	0.9	0.9		125.9	
Initial Spares													
Total Proc Cost	106.1	2.3	1.6	0.8	0.8	10.6	0.9	0.9	0.9	0.9		125.9	
Fltway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:** Information Systems (PACOM) encompasses non-tactical telecommunications requirements to support Army base operations and U.S. Military Command and Control (C2) requirements in the Pacific theater, including upgrade of fixed plant telephone systems in Korea and Japan. The upgrades of the Korea Telephone Network (KTN) and Japan Telephone Network (JTN) will modernize the Army telephone systems in the respective countries. The switch hardware and software will be upgraded to provide integrated voice and data capabilities, as well as to provide the added line capacity required to satisfy critical Korean warfighter missions.

**JUSTIFICATION:** The FY 99 funds will procure software and hardware upgrades at all host switches in Korea and Japan networks. These sites are the top priority of the Eighth U.S. Army and U.S. Army Japan. The upgrades will provide voice, data, and video services over a single Integrated Services Digital Network (ISDN) connection. Additionally, the upgraded switches will operate more efficiently, providing a cost avoidance for the Department of Defense.

(ID CODE A)



Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: INFORMATION SYSTEMS (PACOM) (BB8900)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		ID	FY 96		FY 97		FY 98		FY 99				
		CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each
Korean Telephone Network (KTN), And Telephone Network Switch Upgrade		A	760	1	760	778	1	778	829	1	829	10622	1
C4 Korean Initiatives: Network Management System		A	728	1	728								
Black Switch [EUSA ]		A	123	1	123								
TOTAL			1611			778			829			10622	
NOTE: The unit cost varies because it's based on the size differences of individual switches (300 - 4,000 line size) and also inflation factors.													

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998		
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics			Weapon System Type:		P-1 Line Item Nomenclature: INFORMATION SYSTEMS (PACOM) (BB6900)							
Equipment			Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
WBS Cost Elements: Fiscal Years												
Korean Telephone Network (KTN), And Telephone Network Switch Upgrade			GTE	C/FP/OP	CECOM	Jul-96	Mar-97	1	760			
FY 96			GTE	C/FP/OP	CECOM	Aug-97	Oct-97	1	778			
FY 97			GTE (LTLCS)	C/FP/OP	CECOM	Mar-98	Nov-98	1	829	YES		
FY 98			GTE (LTLCS) or DSSMP	C/FP/OP	CECOM	Mar-99	Nov-99	VAR	VAR	NO	NO	
FY 99												
C4 Korean Initiatives: Network Management System			BBN	CFP	CECOM	Jul-96	Oct-96	1	728			
FY 96												
Black Switch [EUSA]			SALC	MIPR	CECOM	Jun-96	Jun-96	1	123			
FY 96												
<b>REMARKS:</b> KTN = Korean Telephone Network GTE, Needham Heights, MA ISDN = Integrated Services Digital Network BCS = Batch Change Supplement SALC=Sacramento Air Logistics Center, Sacramento, CA EUSA = Eighth US Army JTN = Japan Telephone Network BBN, Cambridge, MA												

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												INFORMATION SYSTEMS (MCA SUPPORT) (BB1400)
Code:												Other Related Program Elements:
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	30.9	3.4	5.8	9.5	5.8	9.9	4.9	4.8	4.9	5.1		85.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	30.9	3.4	5.8	9.5	5.8	9.9	4.9	4.8	4.9	5.1		85.1
Initial Spares												
Total Proc Cost	30.9	3.4	5.8	9.5	5.8	9.9	4.9	4.8	4.9	5.1		85.1
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The program provides state-of-the-art major information system equipment such as integrated voice/data switches; Tier II computers (i.e., common user, multiple-purpose assets supporting Army installations and/or organizations); voice/data switch expansions; common user LAN transport equipment; and basic telephone instruments. This equipment is to be installed in conjunction with Military Construction, Army (MCA) projects. Included in this program are funds for the renovation of the facility housing the War College at Fort McNair. The Army is executive agent for the National Defense University (NDU), which is renovating Building 60 at Fort McNair, to correct longstanding over-crowding and failing/antiquated mechanical systems. Classrooms are 1960's vintage or older and cannot accommodate modern electronic systems without major improvements to the building's infrastructure. The OPA funded information systems are critical to NDU's ability to comply with academic standards, improve the quality and professionalism of instructional systems, meet Congressional mandates for increased faculty/student ratio, and support growing student loads.

JUSTIFICATION: FY 99 funds support information systems requirements associated with approved MCA projects. Funding is applied to specific projects based upon mission priority, timing of construction schedules, beneficial occupancy dates (BOD), and minimum lead time required for acquisition and installation of associated information system equipment. FY 99 funding provides \$4.7M for the upgrade, installation and testing of an SL 100 Telephone switch for MCA project #26803 in Qatar in addition to other information systems requirements. Funding supports regulatory requirements as outlined in AR 415-15 and other applicable U.S. Army Directives. These funds are essential to insure that information systems are installed in sync with Corps of Engineer construction schedules. FY 99 funding supports thirty-five (35) approved MCA projects.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: INFORMATION SYSTEMS (MCA SUPPORT) (BB1400)				Weapon System Type:		Date: February 1998
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99				
ID	CD		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	TotalCost \$000	Qty Each	UnitCost \$000
MCA PROJECTS													
Telephone Switch	A		4532	2	2266	1940	1	1940	933	1	4779	1	4779
Switch Upgrades	A		125	7	VAR	1413	30	VAR	854	19	1818	21	VAR
Telephone System	A		82	14	VAR	240	47	VAR	380	21	508	22	VAR
Engineering	A		600	1	600	600	1	600	800	1	800	1	800
LAN Transport System	A		17	3	VAR	1770	30	VAR	293	15	1971	16	VAR
Information System Upgrade	A		487	1	487	3533	1	3533	2544	1			
Eisenhower Hall, Fort McNair (NDU)													
TOTAL			5843			9496			5804		9876		

Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:		P-1 Line Item Nomenclature: INFORMATION SYSTEMS (MCA SUPPORT) (BB1400)						
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Telephone Switch		VAR*		C/FP	ISEC-CONUS	VAR	VAR	2	2266			
FY 96		VAR*		C/FP	ISEC-CONUS	VAR	VAR	1	1940			
FY 97		TBS		C/FP	ISEC-CONUS	VAR	VAR	1	933	YES		
FY 98		TBS		C/FP	ISEC-CONUS	VAR	VAR	1	4779	YES		
FY99												
Switch Upgrades		VAR*		OPTION**	ISEC-CONUS	VAR	VAR	7	VAR			
FY 96		VAR*		OPTION**	ISEC-CONUS	VAR	VAR	30	VAR			
FY 97		TBS		OPTION**	ISEC-CONUS	VAR	VAR	19	VAR	YES		
FY 98		TBS		OPTION**	ISEC-CONUS	VAR	VAR	21	VAR	YES		
FY 99												
Telephone System		VAR*		C/FP	ISEC-CONUS	VAR	VAR	14	VAR			
FY 96		VAR*		C/FP	ISEC-CONUS	VAR	VAR	47	VAR			
FY 97		TBS		C/FP	ISEC-CONUS	VAR	VAR	21	VAR	YES		
FY 98		TBS		C/FP	ISEC-CONUS	VAR	VAR	22	VAR	YES		
FY 99												
Engineering		SAIC		C/FP	ISEC-CONUS	VAR	VAR	1	600			
FY 96		SAIC		C/FP	ISEC-CONUS	VAR	VAR	1	600			
FY 97		SAIC		C/FP	ISEC-CONUS	VAR	VAR	1	800	YES		
FY 98		GOVERNMENT/SAIC		C/FP	ISEC-CONUS	VAR	VAR	1	800	YES		
FY 99												
REMARKS: * Site Specific. Multiple contracts are awarded to multiple contractors throughout the year based on Corps of Engineers contracts, construction start dates, and Beneficial Occupancy Dates. ** Option to existing C/FP contracts VAR: ISEC-CONUS supports numerous projects awarded by the Corps of Engineers (COE) throughout the FY. Unit costs vary by project.												

# Exhibit P-5a, Budget Procurement History and Planning

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998										
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics		Weapon System Type:		P-1 Line Item Nomenclature: INFORMATION SYSTEMS (MCA SUPPORT) (BB1400)																	
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type		Location of PCO		Award Date		Date of First Delivery		QTY Each		Unit Cost \$000		Specs Avail Now?		Date Revisn Avail		RFP Issue Date	
LAN Transport System		VAR*		C/FP		ISEC-CONUS		VAR		VAR		3		VAR		YES					
FY 96		VAR*		C/FP		ISEC-CONUS		VAR		VAR		30		VAR		YES					
FY 97		TBS		C/FP		ISEC-CONUS		VAR		VAR		15		VAR		YES					
FY 98		TBS		C/FP		ISEC-CONUS		VAR		VAR		16		VAR		YES					
FY 99																					
Information System Upgrade		Ellerby Beckett, Inc.		C/FP		NDU		Sep-96		Sep-96		1		487		YES					
Eisenhower Hall, Fort McNair (NDU)		Ellerby Beckett, Inc.		C/FP		COE		Nov-96		Apr-97		1		3533		YES					
FY 96		TBS		C/FP		COE		Nov-97		Apr-98		1		2544		YES					
FY 97																					
FY 98																					
FY 99																					
<b>REMARKS:</b> Site Specific. Multiple contracts are awarded to multiple contractors throughout the year based on Corps of Engineers contracts, construction start dates, and Beneficial Occupancy Dates. VAR: ISEC-CONUS supports numerous projects awarded by the Corps of Engineers (COE) throughout the FY. Unit costs vary by project. Ellerby Beckett, Inc., Washington DC																					

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										DEFENSE MESSAGE SYSTEM (DMS) (BU3770)	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Other Related Program Elements:											
Program Elements for Code B Items:		Code:											
		A											
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	159.9	13.7	7.7	6.3	7.7	16.7	18.8	12.1	12.1	12.2	0.0	267.3	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	159.9	13.7	7.7	6.3	7.7	16.7	18.8	12.1	12.1	12.2	0.0	267.3	
Initial Spares													
Total Proc Cost	159.9	13.7	7.7	6.3	7.7	16.7	18.8	12.1	12.1	12.2	0.0	267.3	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION: The Defense Message System (DMS) provides regional, installation level and user interfaces to DOD record communications services Armywide. The program is currently transitioning from Phase I to Phase II. Replacement of the AUTODIN Mail Server (AMS) Desktop Interface to Automatic Digital Network (AUTODIN Host (DINAH), Automated Special Security Information System Terminal (ASSIST) and other AUTODIN terminals are DMS Phase I actions. Phase I is completed. Phase II focuses on the full scale implementation of Consultative Committee on International Telegraphy and Telephony (CCITT) standardized X.400/X.500 messaging products and the phase down of the AUTODIN system. This process began in FY 95 and will continue under current funding levels through FY 00. Installation locations have been identified and installation/implementation staffing has been allocated. The new message system will feature: (1) A user operated service concept, (2) A single form of message service using a simplified message format, (3) Multilevel secure processing and (4) Automated local distribution via information transfer networks.

JUSTIFICATION: FY 99 funds continue to procure DMS compliant components from the Air Force sponsored DMS Government Open System Interconnection Profile (GOSIP) contract. These components consist of the User Agent e-mail software package, the Profiling User Agent (PUA), Secure Network Servers (SNS) and Subordinate Mail Transfer Agent/Message Store (SMTA/MS). FY 99 procurements will be expanded to include the Tactical Messaging System (TMS). As DMS GOSIP is phased in, AUTODIN will be phasing out. The phase-out, of AUTODIN Switching Centers (ASC), is expected to be completed by 31 December 1999 at an estimated 201 sites.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: DEFENSE MESSAGE SYSTEM (DMS) (BU3770)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
DMS Government Open System Interconnect Profile (GOSIP) Components/EFI&T *	A	7214	VAR	VAR	3282	VAR	VAR	3758	VAR	VAR	1852	VAR	VAR
Tactical Messaging System (TMS)	A				2973	VAR	VAR				9000	VAR	VAR
Profiling User Agent (PUA)	A							1026	VAR	VAR	1711	VAR	VAR
Secure Network Servers (SNS)	A							2000	VAR	VAR	3760	VAR	VAR
Subordinate Mail Transfer Agent/Message Store (SMTA/MS)	A							944	VAR	VAR	400	VAR	VAR
Automated Gateway Messaging System (AGMS)	A	515	VAR	VAR									
TOTAL		7729			6255			7728			16723		
* Engineer Furnish Install and Test (EFI&T)													



Exhibit P-5a, Budget Procurement History and Planning														
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					Weapon System Type:			P-1 Line Item Nomenclature:						
WBS Cost Elements: Fiscal Years					Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
DMS Government Open System Interconnect Profile (GOSIP) Components/EFI&T ** FY 96 FY 97 FY 98 FY 99					Lockheed Martin	C/FP-Option	USAF	Jul-96	VAR *	VAR	VAR			
					Lockheed Martin	C/FP-Option	USAF	Nov-96	VAR *	VAR	VAR			
					Lockheed Martin	C/FP-Option	USAF	Apr-98	VAR *	VAR	VAR			
					Lockheed Martin	C/FP-Option	USAF	Apr-99	VAR *	VAR	VAR			
Tactical Messaging System (TMS) ** FY 97 FY 99					SM-ALC	C/FP	USAF	Nov-96	Sep-97	VAR	VAR			
					SM-ALC	C/FP	USAF/CECOM	Dec-98	Jun-99	VAR	VAR			
Profiling User Agent (PUA) ** FY 98 FY 99					Lockheed Martin	C/FP	USAF/CECOM	Jan-98	VAR *	VAR	VAR			
					Lockheed Martin	C/FP	USAF/CECOM	Jan-99	VAR *	VAR	VAR			
Secure Network Servers (SNS) ** FY 98 FY 99					Lockheed Martin	C/FP	USAF/CECOM	Feb-98	VAR *	VAR	VAR			
					Lockheed Martin	C/FP	USAF/CECOM	Feb-99	VAR *	VAR	VAR			
Subordinate Mail Transfer Agent/Message Store (SMTA/MS) FY 98 FY 99					Lockheed Martin	C/FP	USAF/CECOM	Mar-98	VAR *	VAR	VAR			
					Lockheed Martin	C/FP	USAF/CECOM	Mar-99	VAR *	VAR	VAR			
Automated Gateway Messaging System (AGMS) ** FY 96					GTE	C/FP	NAVY	Mar-96	Mar-96	VAR	VAR			
REMARKS: Lockheed Martin - Manassas, VA SM-ALC - Sacramento Air Logistics Center, CA GTE - General Telephone and Electronics, Chantilly, VA USAF - Gunter Air Force Base, Gunter, Alabama CECOM - Communications Electronic Command, Ft. Monmouth, N.J. * Multiple award and delivery dates throughout the FY ** Site specific														

Exhibit P-40, Budget Item Justification Sheet											Date:
Appropriation / Budget Activity/Serial No:											February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment											P-1 Item Nomenclature:
Program Elements for Code B Items:											LOCAL AREA NETWORK (LAN) (BU4165)
Code:											Other Related Program Elements:
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty											
Gross Cost	54.5	24.7	45.7	17.7	10.0	35.7	49.0	69.8	69.8		393.9
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc (P-1)	54.5	24.7	45.7	17.7	10.0	35.7	49.0	69.8	69.8		393.9
Initial Spares											
Total Proc Cost	54.5	24.7	45.7	17.7	10.0	35.7	49.0	69.8	69.8		393.9
Flyaway U/C											
Wpn Sys Proc U/C											

DESCRIPTION: The Common User Installation Transport Networks (CUITN), fielded under this program, are part of the Installation Information Transfer Systems Improvement Program (ITSIP) designed to improve data communications transfer capabilities at Army installations. This program provides state-of-the-art, high-speed, common-user, data backbone networks and includes the hardware, software and interfaces to both site internal and external systems, networks and terminals, and turnkey approach to the implementation of these networks. The backbone network provides the capability for connections to site workstations, data processing installations, mainframes, and networks while providing access to gateways on the site and the Defense Information Systems Network (DISN) Wide Area Network (WAN) external to the site. The Army is currently utilizing outdated systems, obsolete overstressed telephone resources, and expensive non-standard interim measures to satisfy the increasing data communications requirements. The installation backbone CUITN program will ensure a smooth transition to the Army's long-term objective architecture. The Army has increased the number of computers in use at installations Army wide. Fielding of these systems and workstations coupled with changes to and fielding of interactive databases for Standard Army Management Information Systems (STAMIS), which require the movement of large amounts of data quickly, has placed the need for increased services on installation information transfer systems. Users, whether in garrison or deployed in support of CONUS-Centric Power Projection Strategy, require access to databases, Data Processing Centers, other networks on their home installation, and common user capabilities of the DISN. This expansion of data transfer has overloaded the installation data transfer capabilities. To satisfy installation data transfer requirements, it is necessary to upgrade the base communications infrastructure via replacement/upgrade of switches/cable facilities and procurement of CUITN backbone networks. The CUITN backbone will complement the Integrated Services Digital Network (ISDN) when this capability becomes available. The CUITN backbone provides the means for transferring information within the confines of the Army's posts, camps and stations and will be provided by a mix of resources, depending on the switching technology used at an installation, the installation's information transfer requirements, and availability of funds. The technical make-up of each backbone will be determined on a case-by-case basis and may have gateways to the DISN, tenant organizations (including tactical units), and the Open Systems Interconnection (OSI) protocols as identified by the Government OSI Profile (GOSIP).

Exhibit P-40C Budget Item Justification Sheet				Date
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature		February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		LOCAL AREA NETWORK (LAN) (BUA165)		
Program Elements for Code B Items		Code	Other Related Program Elements	
<p>The CUITN Program is an integral part of the Power Projection Command Control Communications, and Computer Infrastructure (P2C4I) initiative. The overall objectives of P2C4I are to: (1) support communications requirements of deployed forces and their access to home installation sustaining base systems; and (2) emplace Information Systems in a coordinated, synchronized, integrated manner, thereby optimizing funding/personnel resources and maximizing the operational benefits. P2C4I identifies the cooperative role and responsibility for installations in the active, direct execution of the National Military Strategy to project forces beyond the borders of the United States to anywhere in the world with little advance notice.</p> <p>JUSTIFICATION: FY 99 funds engineer, furnish and install backbone networks at one (1) sites on the Installation Sequence List (ISL) and continue implementation at three (3) sites. The CUITN effort is a continuing project. Installations to be upgraded are determined by the number and locations completed in the prior year. LAN installation is critical to support the ever increasing data transfer requirements attributable to actions supporting key Army wartime doctrines and the drawdown of Conventional Forces, Europe. The Army is currently using outdated systems, obsolete, overstressed telephone resources, and expensive, non-standard measures to satisfy the increasing data communications requirements. High speed, backbone LANs will be installed to modernize site data transport capability, improve connectivity, standardize transport networks, and increase capacity for key Army systems such as Defense Message System (DMS), Installation Support Module (ISM), Joint Computer-Aided Acquisition and Logistics System (JICALS), Combined Health Care System (CHCS), Reserve Component Automation System (RCAS) and certain legacy Sustaining Base Information Service (SBIS) applications. FY 99 funds, also provide for program management and engineering effort in support of the CUITN program.</p>				

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: LOCAL AREA NETWORK (LAN) (BU4165)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
Installation Backbone Local Area Network	A	45679	4*	VAR	17694	2*	VAR	17061	1*	VAR	9978	2*	VAR
TOTAL		45679			17694			17061			9978		
* NOTE: Each LAN is site specific and costs vary for each site.													

\* NOTE: Each LAN is site specific and costs vary for each site.

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics		Weapon System Type:		P-1 Line Item Nomenclature:						
Equipment				LOCAL AREA NETWORK (LAN) (BU4165)						
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Fiscal Years										
Installation Backbone Local Area Network										
FY 96 * **	AT&T, LORAL, EDS	C/FP	CECOM	Nov-95	Jun-96	4	VAR			
FY 97 * **	LUCENT, EDS, LOCKHEED, GTE	C/FP	CECOM	Dec-96	Jul-97	2	VAR			
FY 98 * **	LUCENT, EDS, LOCKHEED, GTE	C/FP	CECOM	Jan-98	Aug-98	1	VAR	YES		
FY 99 * **	LUCENT, EDS, LOCKHEED, GTE	C/FP	CECOM	Jan-99	Aug-99	2	VAR	YES	NO	
<b>REMARKS:</b> <p>AT&amp;T, Greensboro, NC</p> <p>EDS = Electronic Data Systems Corp, Herdon, VA</p> <p>LORAL = Loral Federal Systems, Springfield, VA</p> <p>GTE = GTE Government System Corp, Needham, MA</p> <p>Lockheed = Lockheed Martin Federal Systems, Owego, NY</p> <p>Lucent = Lucent Technologies, Greensboro, NC</p> <p>* Multiple awards and deliveries throughout the year.</p> <p>** Site specific/unique. Configuration varies by site.</p>										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998	Feb-98	
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										PENTAGON INFORMATION MGT AND TELECOM (BC0100)			
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Other Related Program Elements:													
Program Elements for Code B Items:		Code:	A												
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog			
Proc Qty															
Gross Cost	45.1	0.3	2.2	50.3	27.4	39.2	17.6	69.5	37.6	18.9	0.0	308.1			
Less PY Adv Proc															
Plus CY Adv Proc															
Net Proc (P-1)	45.1	0.3	2.2	50.3	27.4	39.2	17.6	69.5	37.6	18.9	0.0	308.1			
Initial Spares															
Total Proc Cost	45.1	0.3	2.2	50.3	27.4	39.2	17.6	69.5	37.6	18.9	0.0	308.1			
Flyaway U/C															
Wpn Sys Proc U/C															

**DESCRIPTION:** The Pentagon Renovation Project is an on-going construction project directed by Office of the Secretary of Defense and implemented by a Resident Program Manager, Corps of Engineers (COE), and a Project Manager for Information Management & Telecommunications (PM, IM&T), U.S. Army Materiel Command (USAMC). PM, IM&T is responsible for relocating existing IM&T facilities while sustaining operations and implementing a new Pentagon IM&T physical and electronic infrastructure in concert with COE construction. Relocation includes moving the National Military Command Center (NMCC)/Service Operation centers, consolidating seven Telecommunications Control facilities, collocating 11 Automated Data Processing (ADP) facilities to two facilities, and consolidating 15 command and control, tactical, and administrative telephone switches to 8. The IM&T infrastructure includes the installation of an unclassified/classified backbone and a Network and Systems Management Center. The implementation of IM&T requirements is integral to each phase of the Pentagon Renovation construction program due to the synchronization of both programs. The Pentagon Renovation IM&T Project will provide modern integrated information and telecommunication capabilities to all levels of command in the Pentagon including OSD, the Joint Staff, the Army, Navy, Marine Corp, Air Force and Defense Agencies.

**DESCRIPTION:** This budget line includes funding for the Pentagon Telecommunications Center (PTC) and the Pentagon Renovation Information Management and Telecommunications Project. The Pentagon Telecommunications Center System (PTCS) provides, by Congressional mandate, General Service (GENSER) message origination and termination services for the headquarters of the military services, the Joint Chiefs of Staff, the Office of the Secretary of Defense, and many other DOD/non-DOD subscribers throughout the National Capital Region. In addition, the PTCS provides needed Automated Digital Network (AUTODIN) gateway access to civilian agencies, including the White House, Central Intelligence Agency and Departments of State, Energy, and Commerce. For the subscribers served, the system provides message services for command and control, crisis management, operational and administrative functions.

Exhibit P-40C Budget Item Justification Sheet			
Appropriation / Budget Activity/Serial No.	Date	February 1998	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment	P-1 Item Nomenclature	PENTAGON INFORMATION MGT AND TELECOM (BC0100)	
Program Elements for Code B Items	Code	Other Related Program Elements	

**JUSTIFICATION:** PENTAGON RENOVATION IM&T: The Deputy Secretary of Defense has directed the continuation of the Pentagon Renovation Program by starting Wedge construction in FY98. The FY99 funds procure hardware, such as servers and workstations, and management software to build out the Network and Systems Management Center, which manages the Unclassified and Classified Backbones for the Pentagon. Backbone infrastructure equipment purchases, such as data switches, routers, media and cable, and installation will continue as Basement areas are renovated by the Corps of Engineers. A portion of the FY99 program will purchase equipment and cutover circuits in the Consolidated Technical Control Facility in the renovated area of the basement. A portion of this program will purchase equipment to expand an administrative telephone switch in the Pentagon basement in support of the Pentagon's Total Switch Architecture. The largest portion of the FY99 program will be the purchase and installation of telecommunications infrastructure equipment in the Wedge 1 above ground area of the Pentagon as the Corps of Engineer's construction progresses through that area.

**JUSTIFICATION:** PENTAGON TELECOMMUNICATIONS CENTER: FY98-FY01 funds procure Defense Message System (DMS) equipment platforms and electronic message delivery systems. Equipment platforms include: User Agents (UAS); Subordinate Message Transfer Agents (Smuts); Hardware (H/W) and Software (S/W); Certification Authority Work Stations (CAWs) H/W and S/W; Profile User Agents (PUAs); Bridge Head Servers; Multi-Functional Interpreters (MFIs) H/W and S/W; PCMCIA Card Readers; and FORTEZZA Cards. The objective is to provide secure and reliable message delivery to the customers' desktop. The rate at which DMS support technology evolves and DMS migration and deployment strategy is adopted, will dictate the types and quantities of electronic message delivery systems procured. DMS will be mandatory once the system is fully implemented. DMS will be the only system available for Army customers who require messaging services, and it is currently being developed as a building-wide network in conjunction with the Pentagon Renovation Project. Programmed funding will equip a user community, which includes the highest levels of the Army staff and key decision making personnel, with the tools necessary to use DMS. Additionally, due to the ongoing Pentagon Renovation Project, the PTCs will be required to provide communication to those customers moving outside Pentagon during renovation.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: PENTAGON INFORMATION MGT AND TELECOM (BQ0100)				Weapon System Type:		Date: February 1998	
OPA			FY 96		FY 97		FY 98		FY 99					
ID	CD	Cost Elements	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
		PENTAGON RENOVATION IM&T												
	A	Unclass/Class Backbone, Basement				16548	*VAR	VAR	7500	*VAR	VAR	5400	*VAR	VAR
	A	Command/Ops Centers Equip/Install				7504	*VAR	VAR	1960	*VAR	VAR	1257	*VAR	VAR
	A	Network & Sys Mgmt Ctr HW/SW, Install				1508	*VAR	VAR	780	*VAR	VAR	450	*VAR	VAR
	A	Upgrade/Install Primary Red Switch				2240	*VAR	VAR						
	A	Consolidated Tech Cntrl Equip/Reform				1450	*VAR	VAR	1880	*VAR	VAR	1502	*VAR	VAR
	A	Digital Conferencing Switching System				1652	*VAR	VAR	100	*VAR	VAR			
	A	Swing Space Equip/Install				1749	*VAR	VAR						
	A	Primary Black Cmd/Cntrl Switching Equip				118	*VAR	VAR	150	*VAR	VAR			
	A	Unclass/Class Backbone, Wedge 1				15134	*VAR	VAR	13727	*VAR	VAR	25457	*VAR	VAR
	A	Support Equip/Components				100	*VAR	VAR	250	*VAR	VAR	250	*VAR	VAR
	A	Bus ADP Equip/Install				1432	*VAR	VAR						
	A	Optical Remote Modules/Equip/Install							520	*VAR	VAR	2875	*VAR	VAR
		PTC												
	A	Electronic Message Delivery Systems	100	VAR	VAR	815	*VAR	VAR	570	*VAR	VAR	2004	*VAR	VAR
	A	AUTODIN Gateway Mail Server	275	10	28									
	A	COMTEN Front End Processor	1850	VAR	VAR									
		TOTAL	2225			50250			27437			39195		
		* Upgrade will be site specific, resulting in various unit costs and quantities.												



Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					Date: February 1998				
WBS Cost Elements: Fiscal Years					P-1 Line Item Nomenclature: PENTAGON INFORMATION MGT AND TELECOM (BQ0100)				
Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY	Unit Cost \$000	Specs Avail Now?	Date Reven Avail	RFP Issue Date
Uniclass/Class Backbone, Basement									
FY 97	Bell Atlantic FEDSIM	C/FP	DSS-W	Nov-96	VAR	VAR	Yes		
FY 98	Bell Atlantic	MIPR	FEDSIM	Nov-96	VAR	VAR	Yes		
FY 99	Bell Atlantic	C/FP	DSS-W	Mar-98	VAR	VAR	Yes		
	Bell Atlantic	C/FP	DSS-W	Oct-98	VAR	VAR	Yes		
Command/Ops Centers Equip/Install									
FY 97	SRA	C/FP	Hanscom AFB	Jan-97	VAR	VAR	Yes		
	Navy	MIPR	NISE-EAST	Dec-96	VAR	VAR	Yes		
	SOFS	MIPR	SOFS	May-97	VAR	VAR	Yes		
FY 98	SRA	C/FP	Hanscom AFB	Jan-98	VAR	VAR	Yes		
FY 99	SRA	C/FP	Hanscom AFB	Oct-98	VAR	VAR	Yes		
Network & Sys Mgmt Ctr HW/SW, Install									
FY 97	GMSI	IDIQ	DISA	May-97	VAR	VAR	Yes		
	FEDSIM	MIPR	FEDSIM	May-97	VAR	VAR	Yes		
	PRC	C/FP	DSS-W	Aug-97	VAR	VAR	Yes		
FY 98	FEDSIM	MIPR	FEDSIM	Jan-98	VAR	VAR	Yes		
FY 99	FEDSIM	MIPR	FEDSIM	Nov-98	VAR	VAR	Yes		
Upgrade/Install Primary Red Switch									
FY 97	Raytheon	C/FP	SM-ALC	Feb-98	VAR	VAR	Yes	Feb 98	
Consolidated Tech Cntrl Equip/Reform									
FY 97	NET	C/FP	DISA	Feb-97	VAR	VAR	Yes		
	Air Force	MIPR	IMCEN	Mar-97	VAR	VAR	Yes		
FY 98	NET	C/FP	DISA	Jul-97	VAR	VAR	Yes		
FY 99	DITCO	MIPR	DISA	Jan-98	VAR	VAR	Yes		
	DITCO	MIPR	DISA	Oct-98	VAR	VAR	Yes		
REMARKS:									
DISA = Defense Information Systems Agency DSSW = Defense Supply Service-Washington SM-ALC = Sacramento Air Logistics Center, Sacramento, CA NET = Network Equipment Technologies, Rockville, MD FEDSIM = Federal System Integration Mgmt Center SAIC = Science Applications International Corp. SOFS = Special Operations Force Spt Activity-Bluegrass Station ASC = Army Signal Command GMSI = Global Mgmt Systems Inc. IMCEN = Information Mgmt Support Center-Army NISE EAST = Naval Information Systems Engineering DITCO = Defense Info Technology Contracting Agency SAM = Single Agency Manager -Army SRA = Systems Research Applications									

# Exhibit P-5a, Budget Procurement History and Planning

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature: PENTAGON INFORMATION MGT AND TELECOM (BQ0100)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Digital Conferencing Switching System FY 97	Bell Atlantic Halifax Lucent Bell Atlantic	C/FP C/FP C/FP C/FP	DSS-W CECOM ASC DSS-W	Nov-96 Sep-97 Sep-97 Mar-98	May-97 Oct-97 Oct-97 May-98	VAR VAR VAR VAR	VAR VAR VAR VAR	Yes Yes Yes Yes		
Swing Space Equip/Install FY 97	Air Force	MIPR	SAM	Feb-97	May-97	VAR	VAR	Yes		
Primary Black Cmd/Cntrl Switching Equip FY 97 FY 98	Raytheon Raytheon	C/FP C/FP	SM-ALC SM-ALC	Jul-97 Jan-98	Aug-97 Feb-98	VAR VAR	VAR VAR	Yes Yes		
Unclass/Class Backbone, Wedge 1 FY 97 FY 98 FY 99	TBD TBD TBD	C/FP/OP C/FP/OP C/FP/OP	DSS-W DSS-W DSS-W	Dec-97 Feb-98 Dec-98	Mar-98 May-98 Mar-99	VAR VAR VAR	VAR VAR VAR	Yes Yes Yes		Aug-97
Support Equip/Components FY 97 FY 98 FY 99	SAIC SAIC SAIC	C/FP C/FP C/FP	CECOM CECOM CECOM	Nov-96 Dec-97 Nov-98	Nov-96 Jan-98 Dec-97	VAR VAR VAR	VAR VAR VAR	Yes Yes Yes		
Bus ADP Equip/Install FY 97	Dynamix	Rqmts	DSS-W	Jul-97	Sep-97	VAR	VAR	Yes		
REMARKS: DISA = Defense Information Systems Agency DSSW = Defense Supply Service-Washington SM-ALC = Sacramento Air Logistics Center, Sacramento, CA NET = Network Equipment Technologies, Rockville, MD FEDSIM = Federal System Integration Mgmt Center SAIC = Science Applications International Corp. SOFA = Special Operations Force Spt Activity-Bluegrass Station ASC = Army Signal Command GMSI = Global Mgmt Systems Inc. IMCEN = Information Mgmt Support Center-Army NISE EAST = Naval Information Systems Engineering DITCO = Defense Info Technology Contracting Office SAM = Single Agency Manager -Army SRA = Systems Research Applications										

Exhibit P-5a, Budget Procurement History and Planning											
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					Weapon System Type:		P-1 Line Item Nomenclature: PENTAGON INFORMATION MGT AND TELECOM (BQ0100)				
Date: February 1998											
WBS Cost Elements: Fiscal Years		Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY	Unit Cost	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Optical Remote Modules/Equip/Install FY 98 FY 99		Bell Atlantic Bell Atlantic	C/FP C/FP	DSS-W DSS-W	Mar-98 Jan-99	Apr-98 Mar-99	VAR VAR	VAR VAR	Yes Yes		
Electronic Message Delivery Systems FY 96 FY 97 FY 98 FY 99		Navy Air Force Air Force Air Force	MIPR MIPR MIPR MIPR	SAM SAM SAM SAM	Jun-96 Jul-97 Dec-97 Dec-98	Sep-96 Sep-97 Feb-98 Feb-99	VAR VAR VAR VAR	VAR VAR VAR VAR	Yes Yes Yes Yes		
AUTODIN Gateway Mail Server FY 96		WHS Real Estate & Facilities	MIPR	PM Switch Systems	Jun-96	Sep-96	10	28			
COMTEN Front End Processor FY96		AT&T/NCR	C/FP/OPT	DSS-W	Jul-96	Sep-96	VAR	VAR			
REMARKS: DSS-W = Defense Supply Service-Washington SAM = Single Agency Manager AT&T/NCR = AT&T National Capital Region											

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												FOREIGN COUNTERINTELLIGENCE PROG (FCI) (BKS282)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	10.3	0.2	0.5	2.1	3.9	0.9	1.9	0.9	0.9	1.7	0.0	23.3	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	10.3	0.2	0.5	2.1	3.9	0.9	1.9	0.9	0.9	1.7	0.0	23.3	
Initial Spares													
Total Proc Cost	10.3	0.2	0.5	2.1	3.9	0.9	1.9	0.9	0.9	1.7	0.0	23.3	
Flyaway U/C													
Wpnt Sys Proc U/C													

CLASSIFIED PROGRAM. INFORMATION WILL BE PROVIDED UPON REQUEST.

Exhibit P-40, Budget Item Justification Sheet												
Appropriation / Budget Activity/Serial No:										Date:		
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										February 1998		
P-1 Item Nomenclature:										GENERAL DEFENSE INTELL PROG (GDIP) (BD3900)		
Program Elements for Code B Items:										Other Related Program Elements:		
Code:												
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	270.5	31.1	24.4	23.6	18.9	21.5	20.2	22.5	20.7	20.6	0.0	474.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	270.5	31.1	24.4	23.6	18.9	21.5	20.2	22.5	20.7	20.6	0.0	474.0
Initial Spares												
Total Proc Cost	270.5	31.1	24.4	23.6	18.9	21.5	20.2	22.5	20.7	20.6	0.0	474.0
Flyaway U/C												
Wpn Sys Proc U/C												

CLASSIFIED PROGRAM. INFORMATION WILL BE PROVIDED UPON REQUEST.

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												ITEMS LESS THAN \$2.0M (INTEL SPT) - TIAR (BL5278)
Code:												Other Related Program Elements:
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	18.4	2.6	2.2	9.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	35.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	18.4	2.6	2.2	9.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	35.0
Initial Spares												
Total Proc Cost	18.4	2.6	2.2	9.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	35.0
Flyaway U/C												
Wpn Sys Proc U/C												

**DESCRIPTION:** This line supports intelligence related (TIARA and non-TIARA) programs and activities for training Cryptologic, Signals Intelligence (SIGINT), Electronic Warfare (EW), and Imagery Intelligence (IMINT) skills. Funds will: upgrade devices to maintain commonality across similar systems; continue development and exploration of transferability of skill among UNIX-based program workstations; enable a seamless learning environment which facilitates time-shifted learning, self-paced study, and participation in realistic synthetic environments. New procedures and environments for training will enable students to work on real-world products and operations in support of the field Army. Students in one class will be able to team with students in another class or course in a common networked environment. All training devices should be built to a common simulation data architecture so they can use common data feeds and participate in virtual exercises. Simulations can also be delivered in target languages.

**JUSTIFICATION:** FY98 supports the following requirements: completes transition of MI Simulation Center to full DIS compliance; completes transition of SCl training LAN capabilities to full integration with JWICS Intellink; initiates acquisition of CI/HUMINT Automated Training System (CHATS); integrates all officer unclassified training material into a common software environment with standardized hardware; provides every instructor with a common software environment and plug-in networks available in classified and unclassified classrooms to present instruction and to handle training administration; obtains standardized low end multimedia presentation tools for both AC and RC; develops a high-speed path for all students and instructors to an industry on-line services provider; SUN Microsystems support of SIGINT Analyst training for programs such as ASAS and TROJAN; and imagery analyst training capabilities which mirror national imagery systems for TENCAP.

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												ASAS - MODULES (TIARA) (K28801)
Code:												Other Related Program Elements:
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty						7	7	5	5	4	28	
Gross Cost	404.1	4.5	11.5	13.8	22.8	60.9	63.5	49.7	63.4	144.7	863.0	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	404.1	23.4	11.5	13.8	22.8	60.9	63.5	49.7	63.4	144.7	881.9	
Initial Spares	6.0	0.3	2.0	0.6		1.8	5.4	8.0	8.6	11.4	44.1	
Total Proc Cost	410.1	23.7	13.5	14.4	22.8	62.7	68.9	57.7	72.1	156.1	926.0	
Flyaway U/C												
Wpn Sys Proc U/C												

(U) DESCRIPTION: The All Source Analysis System (ASAS) provides US Army commanders at echelons above corps through battalion a standard all source intelligence processing/reporting system and provides commanders the means for gaining a timely and comprehensive understanding of Opposing Force (OPFOR) deployments, capabilities, and potential courses of action. The system interfaces with selected national, joint, and theater intelligence assets, adjacent/higher/lower military intelligence processors and sensors, Army Battle Command System (ABCS), and organic deployed Intelligence/Electronic Warfare (IEW) teams and assets. The ASAS also is a user of terrain and weather data. The ASAS system uses standard joint and Army protocols and message formats to interface with forward deployed sensors/teams, intelligence processors and joint/national/Army C3I systems.

In March 1994, the Vice Chief of Staff, Army directed that an accelerated fielding of the ASAS capability across the force (including all Army Military Intelligence units and National Guard Enhanced Readiness Brigades) be accomplished by FY99. This accelerated fielding, called ASAS-Extended, is being accomplished by issuing ASAS software operating on Non-Developmental Item (NDI) commercial off-the-shelf (COTS) Common Hardware/ Software (CHS-2) to provide an ASAS capability to units not receiving the 12 previously procured ASAS Block I. ASAS-Extended is based on a modular approach which allows for incremental enhancements of ASAS capabilities using the fielded ASAS baseline and by leveraging the traditional acquisition successes of ASAS Block I.

(U) JUSTIFICATION: FY 99 funding is required to replace selected aging Block I workstations with CHS-2 workstations and enhanced software; support digitization; and complete procurement and fielding of the last 4 ASAS-Extended unit sets. FY99 funding will also be used to fix the Year 2000 (Y2K) problem in the ASAS Communication Control Set and Compartmented ASAS Message Processing System.

IDENTIFICATION CODE: A

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: ASAS - MODULES (TIARA) (K28801)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
ASAS-Extended Systems and Modules	A	1974	6	329	1927	9	214	1284	6	214	856	4	214
ASAS Hardware Modules	A	2700	*	VAR	3062	*	VAR	14996	*	VAR	11813	*	VAR
Project Management Administration		1239			1300			1250			1288		
Engineering Support					500								
Fielding		2438			2880			1978			6800		
Interim Contractor Support		3126			4155			3262			3360		
Other													
TOTAL		11477			13824			22770			24117		
* Cost and composition of ASAS unit sets vary because of unit mission, echelon assigned and hardware module replaced.													

\* Cost and composition of ASAS unit sets vary because of unit mission, echelon assigned and hardware module replaced.



# Exhibit P-5a, Budget Procurement History and Planning

Exhibit P-5a, Budget Procurement History and Planning									
Date: February 1998									
P-1 Line Item Nomenclature:									
ASAS - MODULES (TIARA) (K28801)									
WBS Cost Elements:	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Reven Avail	RFP Issue Date
ASAS-Extended Systems (Workstations)									
FY 96	GTE Taunton, MA	CECOM	Feb-96	Sep-96	12	60	N/A	N/A	N/A
FY 97	GTE Taunton, MA	CECOM	Nov-96	Jun-97	18	60	N/A	N/A	N/A
FY 98	GTE Taunton, MA	CECOM	Nov-97	Jan-98	12	60	N/A	N/A	N/A
FY 99	GTE Taunton, MA	CECOM	Nov-98	Jun-99	8	60	N/A	N/A	N/A
ASAS-Extended Systems (Comms Modules)									
FY 96	CMI Woodland Hills, CA	CP/AF	Jun-96	Dec-96	6	209	N/A	N/A	N/A
FY 97	CMI Woodland Hills, CA	CP/AF	Nov-96	May-97	9	94	N/A	N/A	N/A
FY 98	CMI Woodland Hills, CA	CP/AF	Nov-97	Jun-98	6	94	N/A	N/A	N/A
FY 99	CMI Woodland Hills, CA	CP/AF	Nov-98	Jun-99	4	94	N/A	N/A	N/A
ASAS Hardware Modules									
FY 96	GTE Taunton, MA	CECOM	Nov-95	Jul-96	*	VAR	N/A	N/A	N/A
FY 97	GTE Taunton, MA	CECOM	Dec-96	Jul-97	*	VAR	N/A	N/A	N/A
FY 98	EWA, Fairmont, WV	FFP	Nov-97	May-98	*	VAR	Yes	N/A	N/A
	GTE Taunton, MA	CECOM	Nov-97	May-98	*	VAR	N/A	N/A	N/A
	GTE Taunton, MA	CECOM	Nov-98	Jun-99	*	VAR	N/A	N/A	N/A
FY 99	EWA, Fairmont, WV	FFP	Nov-98	Jun-99	*	VAR	Yes	N/A	N/A
REMARKS: All equipment is NDI/COTS purchased through PM CHS or other Army Activities.									
* Equipment quantity and cost covers several workstation modules, components and communications sets.									

# Exhibit P-40, Budget Item Justification Sheet

Appropriation / Budget Activity/Serial No: Date: February 1998

P-1 Item Nomenclature: JTTC/CIBS-M (TIARA) (V29600)

OTHER PROCUREMENT / 2 / Communications and Electronics Equipment

	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	48		70	71	35	21	110	110	50	50	90	655
Gross Cost	74.9	11.6	29.1	20.8	11.2	5.3	24.8	25.5	12.4	13.0	0.0	228.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	14.9	11.6	29.1	20.8	11.2	5.3	24.8	25.5	12.4	13.0	0.0	168.6
Initial Spares	2.3	0.5	1.3	2.7	0.8	4.5						12.1
Total Proc Cost	17.2	12.1	30.4	23.5	12.0	9.8	24.8	25.5	12.4	13.0	0.0	180.7
Fiyaway U/C	0.4	0.5	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Wpn Sys Proc U/C	0.5	0.7	.4	.3	.3	.4	.2	.2	.3	.3	.2	

## DESCRIPTION:

The Joint Tactical Terminal (JTT)/ Commander's Tactical Terminal (CTT) are a family of special application UHF Line of Sight (LOS)/ Satellite Communications (SATCOM) Secure Intelligence dissemination reporting system for deployment with tactical units. The system uses airborne and satellite relay platforms to provide robust, reliable jam resistant targeting and intelligence data and voice connectivity throughout the battlefield. Data from various sensors and HUMINT sources are transmitted over the Integrated Broadcast Service (IBS). Specific IBS transmission networks include the Tactical/ Reconnaissance Exchange System (TRIXS) network, the Tactical Information Broadcast Service (TIBS), Tactical Related Activities (TRAP) Data Dissemination System (TDDS), and Tactical Data Information eXchange System (TADIXS) networks. In addition, the terminals can also employ generic Ultra High Frequency (UHF) frequencies.

The IBS is the worldwide DOD standard Network for transmitting tactical and strategic intelligence and battle management data. Starting in FY98 the CTTs produced will begin migration towards the objective Joint Tactical Terminal (JTT) configuration, utilizing individual Common Integrated Broadcast Service-Modules (CIBS-M). The CTT has a 3 channel capability with 3 Receivers and 1 Transmitter. The JTT is the next generation DOD standard system which provides 8 receive, and 1 transmit channels, higher data throughput and module design.

The JTT and CTT 3 terminals deliver critical, time sensitive battlefield intelligence and targeting information at collateral and system high security levels in near real time to the worldwide tactical commanders and intelligence nodes at all echelons. The terminals provide direct, secure and dedicated connectivity/interoperability for rapid targeting, threat avoidance, battle management, mission planning and sensor cueing. The equipment can be mounted in fixed and rotary wing aircraft as well as fixed or mobile ground platforms. The JTT and CTT 3 facilitates, reaction inside the enemy decision cycle and is necessary to winning the information war on the battlefield.

**JUSTIFICATION:** The FY 99 funding procures JTT hardware to meet specified user requirements. FY 99 quantities include receive only and full duplex (receive/transmit) variants based on user identified requirements. JTT is a part of the Army's high priority initiative to digitize the battlefield.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: JTT/CIBS-M (TIARA) (V29600)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
HARDWARE													
CTT (3 CH)	B	6246	18	347	16800	71	237						
JTT (T/R) Transmits and Receives	B	17050	*86	198				7420	35	212	3630	30	121
JTT (R ONLY) Receives only	B	1810	10	181				1920	10	192	808	8	101
CTT (OTHER SERVICE RQMTS)*	B		43			25							
JTT (OTHER SERVICE RQMTS)*						24			44			88	
SUPPORT													
ECOs		1431			1981			329			86		
DATA		528			301			105			38		
SYSTEM TEST & EVAL		577			95			75			59		
ENGINEERING SUPPORT													
IN-HOUSE		490			399			366			170		
CONTRACTOR		310			389			308			151		
Subtotal - ENGINEERING SUPPORT		800			788			674			321		
FIELDING													
PROGRAM MGMT (ADMIN)		268			259			75			53		
		366			577			592			345		
TOTAL		29076			20801			11190			5340		
Other services quantities are identified in order order to load P21 production delivery data													
*Quantities in the data base do not reflect actual quantities.													

# Exhibit P-5a, Budget Procurement History and Planning

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature: JTT/CIBS-M (TIARA) (V29600)							
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date	
CTT (3 CH) FY 96 FY 97	E SYSTEMS, ST PETE, FL E SYSTEMS, ST PETE, FL	SS/FP SS/FP	CECOM CECOM	Dec-95 Jun-97	Jun-97 Jul-98	18 71	347 237	YES YES			
JTT (T/R) FY 96 FY 98 FY 99	E SYSTEMS, ST PETE, FL E SYSTEMS, ST PETE, FL E SYSTEMS, ST PETE, FL	C/FP OPTION OPTION	CECOM CECOM CECOM	Sep-97 Mar-98 Jan-99	Jun-99 Jan-00 Jul-00	70 35 30	198 212 121	YES YES YES			
JTT (R ONLY) FY 96 FY 98 FY 99	E SYSTEMS, ST PETE, FL E SYSTEMS, ST PETE, FL E SYSTEMS, ST PETE, FL	C/FP OPTION OPTION	CECOM CECOM CECOM	Sep-97 Mar-98 Jan-99	Dec-99 Jan-00 Jan-01	10 10 8	206 192 101	YES YES YES			
<b>REMARKS:</b> The FY 96 JTT contract was awarded and protested. The contract was recompeted and awarded in Sep 97.  The first FY 96 CTT delivery is not an Army delivery. The first Army delivery is scheduled for Dec 97.											



[illegible]

The FY 96 JTT contract was awarded and protested. The contract was re-competed and awarded in Sep 97.



# Exhibit P-40, Budget Item Justification Sheet

Appropriation / Budget Activity/Serial No:		Date:	February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Item Nomenclature:	
Program Elements for Code B Items:		IEW - GND BASE COMMON SENSORS (TIARA) (BZ7326)	

Appropriation / Budget Activity/Serial No:			P-1 Item Nomenclature:									
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			IEW - GND BASE COMMON SENSORS (TIARA) (BZ7326)									
Program Elements for Code B Items:			Code:	Other Related Program Elements:								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	58.4	45.5	41.4	0.0	25.4	30.7	83.8	95.4	107.1	0.0	487.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	58.4	45.5	41.4	0.0	25.4	30.7	83.8	95.4	107.1	0.0	487.7
Initial Spares		0.4	12.6	7.2		5.7	4.8	5.5	7.4	9.8		53.4
Total Proc Cost	0.0	58.8	58.1	48.6	0.0	31.1	35.5	89.3	102.8	116.9	0.0	541.1
Flwyway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: Ground Based Common Sensor (GBCS) is an absolute win the battlefield information war element. GBCS provides the Commanders of Army Divisions, Armored Cavalry Regiments and Separate Brigades with an organic capability to listen to, precisely locate for hard kill or order-of-battle resolution, or render threat command and control and fire control communications nets ineffective through electronic attack. GBCS provides capability to identify and precisely locate threat counter/mortar, counter/battery and ground surveillance radar emissions. The system is in two configurations specifically designed to ensure transportability, prime mover maintainability, and over terrain mobility equal to that of the supported divisions, regiments and brigades. GBCS-Light is in a High Mobility Multipurpose Wheeled Vehicle (HMMWV) for deployment with first to fight, Light, Airborne and Air Assault elements in support of contingency operations. GBCS-Heavy is configured on a derivative of the Bradley Fighting Vehicle System, the Electronic Fighting Vehicle System (EFVS). The EFVS development and procurement is in concert with the Command and Control Vehicle (C2V) for deployment with Heavy and Armored units. It will be the Army's only on-the-move, all terrain, self-contained, fully integrated, 24-hour-a-day, signals intelligence and electronic attack asset.

GBCS exploits or eliminates, at the Commander's discretion, the latest most modern types of hostile modulations including modern radar and Low Probability of Intercept (LPI) communications, and transmissions techniques at the key time and place on the battlefield. When deployed in conjunction with Advanced QUICKFIX, its helicopter counterpart, GBCS provides for targeting accuracy sufficient for first round hit by organic artillery.

GBCS mission equipment is also being configured in a Light Armored Vehicle (LAV) for use by the United States Marine Corps. The program must be considered as a whole with GBCS-L, GBCS-H and AQF. All three programs leverage the others funding.



<p align="center"><b>Exhibit P-40C Budget Item Justification Sheet</b></p>			<p>Date</p> <p align="center">February 1998</p>
<p>Appropriation / Budget Activity/Serial No.</p>	<p>P-1 Item Nomenclature</p>	<p>IEW - GND BASE COMMON SENSORS (TIARA) (BZ7326)</p>	
<p>OTHER PROCUREMENT / 2 / Communications and Electronics Equipment</p>	<p>Code</p>	<p>Other Related Program Elements</p>	
<p>Program Elements for Code B Items</p>			
<p><b>JUSTIFICATION:</b> The FY99 funds start the GBCS full-rate production line to support Department of the Army approved Operational Requirements Document for contingency forces. Sensor subsystems include (1) TACJAM-A Electronic Support Measures (ESM) subsystem to intercept and locate conventional, digital data, burst, and LPI communications; (2) TACJAM-A Electronic Countermeasures (ECM) subsystem to freeze the enemy in place by jamming command and control and fire control communications; (3) CHALS-X(M) miniaturized precision location subsystem to provide for location of communications emitters sufficient for targeting by organic artillery; and (4) Common Modules ELINT Subsystem (CMES) to identify and locate, also with targeting accuracies, threat radars. The threat radars consist of counter mortar, counter battery, and ground surveillance radars using conventional and modern signal modulations.</p>			

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: IEW - GND BASE COMMON SENSORS (TIARA) (BZ7326)			Weapon System Type:			Date: February 1998		
OPA			FY 96			FY 97			FY 98			FY 99		
Cost Elements			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
TACJAM-A ESM			14584			6870						7290		
TACJAM-A ECM														
CHALS-X/M			5147			1690						1794		
CMES *						857						1518		
GBCS-L INTEGRATION/CFE/GFE			18512			8398						8910		
GBCS-L HARDWARE Sub Total			38243	4	9561	17815	2	8908				19512	2	9756
CMES*						1713						1518		
SUPPORT:														
ECO'S						5000						100		
DATA			3228			278						170		
SYS TEST & EVAL						3021								
ENGINEERING SPT:														
IN-HOUSE			720			1150						1100		
CONTRACT			200			1642						1236		
FIELDING						3270						1052		
INTERIM CONTRACT SUPPORT			2829			1394						400		
PROGRAM MGMT (ADMIN)			250			250						300		
TOTAL			45470			35533						25388		
FY97 Funding: \$5.9M is on withhold for Army reprogramming for digitization.														
*Provides current CMES hardware configuration for GBGS-L procured in prior fiscal years.														

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature: IEW - GND BASE COMMON SENSORS (TIARA) (BZ7326)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
GBCS-L HARDWARE										
FY96	Lockheed/Martin, Owego, NY	C/FP	CECOM	Jan-96	Jan-99	4	9561	Yes		
FY97	Lockheed/Martin, Owego, NY	Option	CECOM	Nov-96	May-99	2	8908	Yes		
FY99	Lockheed/Martin, Owego, NY	Option	CECOM	Nov-98	Nov-00	2	9756	Yes		
<b>REMARKS:</b> FY96 initiated competitive production. FY97 completes Limited Procurement requirements with the purchase of two systems.										







# Exhibit P-40, Budget Item Justification Sheet

Appropriation / Budget Activity/Serial No. Date: February 1998

OTHER PROCUREMENT / 2 / Communications and Electronics Equipment P-1 Item Nomenclature: JOINT STARS (ARMY) (TIARA) (BA1080)

Program Elements for Code B Items: Other Related Program Elements:

	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	21	8	16	16	14	20	20	20	8			143
Gross Cost	128.4	55.2	83.2	84.7	91.1	87.2	88.5	107.0	31.3	7.1	0.0	763.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	128.4	55.2	83.2	84.7	91.1	87.2	88.5	107.0	31.3	7.1	0.0	763.7
Initial Spares	6.3	3.1	3.6	8.6	6.3	8.7	6.3	6.4	7.1	4.5		60.9
Total Proc Cost	134.7	58.3	86.8	93.3	97.4	95.9	94.8	113.4	38.4	11.6	0.0	824.6
Flyaway U/C	5.9	6.2	4.4	4.3	4.4	4.4	4.5	4.6	4.3			
Wpn Sys Proc U/C	6.6	7.3	5.4	5.9	6.3	4.8	4.9	6.0	5.5			

**DESCRIPTION:** The Joint Surveillance Target Attack Radar System (Joint STARS) is a surveillance battle management and targeting system. It is a Joint Army and Air Force program with the Air Force as the executive service. The Joint STARS Radar is an airborne multimodal radar system incorporating an electronically scanned antenna and combines both Moving and Fixed Target Indicator (MTI/FTI) and Synthetic Aperture Radar (SAR) functions. The radar is carried aboard a modified E-8 aircraft (ANTTSQ-XXX) and broadcasts radar data to the Army Ground Station Modules (GSM) through an omnidirectional data link. In addition to Joint STARS data, the GSM will receive and process Unmanned Aerial Vehicle (UAV) and Commanders Tactical Terminal (CTT) data. The GSM is a tactical data processing and evaluation center that links the Joint STARS carried aboard the Air Force E-8 aircraft to the Army C3I Tactical Fire Direction System (TACFIRE) and All Source Analysis System (ASAS) nodes at the Corps, Division and Brigade levels. The GSM will assist commanders in determining battle management and targeting. As of FY96, Joint STARS Ground Stations will incorporate Secondary Imagery Dissemination and other enhancements via an approved Pre-Planned Product Improvement (P3I) program. These production line engineering change proposals (ECPs) will bring about the evolution of the GSM into the Army's Common Ground Station (CGS). The CGS will integrate signal, imagery and other intelligence processing into a single ground station, resulting in enhanced battle management capabilities. The Joint STARS will fulfill an urgent air-land battlefield deficiency by providing an Army/Air Force battlefield sensor and attack control capability designed to detect, locate, track, classify and assist in attacking both moving and stationary ground targets beyond the Forward Line of Troops (FLOT).

**JUSTIFICATION:** The FY99 funds procure 20 units. The Army has a demonstrated critical requirement for a world-wide deployable ground station capable of processing and reporting radar intelligence and imagery intelligence obtained from a variety of airborne platforms (e.g. Joint STARS, objective deep Unmanned Aerial Vehicle (UAV), close UAV, and allied aerial platforms). The Joint STARS Ground Stations has repeatedly provided high value targeting and intelligence data to Field Commanders during contingencies (Operation Joint Endeavor), as well as during standard mission operations of fielded units. The CGS has proved to be a significant battle management asset to the Ground Commander. Joint STARS is a proven force multiplier, fielded to high priority units for worldwide deployment.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: JOINT STARS (ARMY) (TIARA) (BA1080)			Weapon System Type:			Date: February 1998		
OPA Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
		HARDWARE												
		COMMON GROUND STATION (CGS)												
		CGS USMC ASSETS												
		MGSM UPGRADE TO CGS CAPABILITY												
		SUPPORT												
		ECO'S												
		DATA	70544	16	4409	67536	16	4221	58212	14	4158	83800	20	4190
		SYSTEM TEST AND EVAL		2					25520	16	1595			
		ENGINEERING SUPPORT	5050			6181			3760			627		
		IN HOUSE	751			554			178			252		
		PRIME CONTRACTOR	1756			2239			297			132		
		Subtotal - ENGINEERING SUPPORT	490			1720			279			396		
		FIELDING	1308			3408			482			430		
		PROGRAM MANAGEMENT (ADMIN)	1798			5128			761			826		
		TOTAL	2305			2075			1345			504		
			978			1006			1006			1088		
			83182			84719			91079			87229		



Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature: JOINT STARS (ARMY) (TIARA) (BA1080)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
COMMON GROUND STATION (CGS) FY 96 FY 97 FY 98 FY 99	Motorola, Scottsdale, AZ	C/FP	CECOM	Dec-95	Mar-97	16	4409			
	Motorola, Scottsdale, AZ	Option	CECOM	Jan-97	Mar-98	16	4221			
	Motorola, Scottsdale, AZ	Option	CECOM	Jul-98	Sep-99	14	4158			
	Motorola, Scottsdale, AZ	Option	CECOM	Jan-99	Apr-00	20	4190			
CGS USMC ASSETS FY 96	Motorola, Scottsdale, AZ	Option	CECOM	Sep-97	Feb-98	2	VAR			
MGSM UPGRADE TO CGS CAPABILITY FY 98	Motorola, Scottsdale, AZ	Option	CECOM	Dec-97	Nov-98	16	1595			
REMARKS:										









Exhibit P-40, Budget Item Justification Sheet											Date:	February 1998
Appropriation / Budget Activity/Serial No:			P-1 Item Nomenclature:								NATO-AGS (BA1082)	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												
Program Elements for Code B Items:			Code:		Other Related Program Elements:							
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.6
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.6
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The US is a major participant in a cooperative venture to provide a Ground Surveillance Capability for NATO forces. Initial efforts to evaluate various Air/Ground component solution sets for the NATO Alliance Ground Surveillance System (NAGS) commenced in May 1995. The Joint STARS system has been proposed by the US as the best solution for providing NATO with the required capability. The NAGS selection is scheduled for FY99.

JUSTIFICATION: The FY98 funds will be utilized for program management support for requirements development and production planning.

Exhibit P-5, Weapon OPA Cost Analysis				Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: NATO-AGS (BA1082)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		ID	CD	FY 96			FY 97			FY 98			FY 99		
				TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
				\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
HARDWARE															
ENGINEERING SUPPORT															
PROGRAM MANAGEMENT (ADMN)										611					
TOTAL										611					

Exhibit P-40, Budget Item Justification Sheet												
Appropriation / Budget Activity/Serial No:		Date:		February 1998								
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Item Nomenclature:		INTEGRATED BROADCAST TERMINAL MODS (TIAR (BA1081)								
Program Elements for Code B Items:		Code:		Other Related Program Elements:								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	0.0	1.4	3.2	6.5	0.0	0.0	0.0	0.0	0.0	11.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	1.4	3.2	6.5	0.0	0.0	0.0	0.0	0.0	11.1
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	1.4	3.2	6.5	0.0	0.0	0.0	0.0	0.0	11.1
Flyaway U/C												
Wpn Sys Proc U/C												

**DESCRIPTION:** The Integrated Broadcast Service (IBS) is the worldwide DOD standard network for transmitting tactical and strategic intelligence as well as battle management data. Starting in FY98, all DOD systems requiring access to the IBS will gain this access via a new family of common IBS modules (CIBS-M) and Joint Tactical Terminals (JTT). The initial CIBS modules will begin production in FY98 and ultimately upgrade all IBS migration tactical terminals currently in use by the services. Prior to the initiation of the CIBS-M program the services received the IBS Broadcast via the Commander's Tactical Terminal (CTT). The CTTs will require modifications to maintain accessibility and interoperability with the IBS Broadcasts. This will be done via CIBS-M.

**JUSTIFICATION:** The IBS plan directs that the Broadcast Networks maintain a standard technical configuration/approach that necessitates modifications to existing tactical terminals. The current support to Army, Air Force, Marine and Navy units provided via CTT must be maintained beyond the year 2005. The CTTs are integrated into numerous weapon systems and provide near real time intelligence data. The modifications funded via this program insure the continued receipt of this information and intelligence data by USA forces worldwide.

The FY99 funds are required to complete the modifications of fielded CTTs to allow them to maintain compliance and compatibility with evolving network standards. This includes a major upgrade to the terminal processors, replacement of the outdated COMSEC Circuitry with the current DOD standard chips, and addition of DAMA module.



## Exhibit P-40M Budget Item Justification Sheet

Date \_\_\_\_\_

February 1998

Appropriation / Budget Activity/Serial No.

Activity/Serial No.

### P-1 Item Nomenclature

INTEGRATED BROADCAST TERMINAL MODS (TIARA) (BA1081)

### Program Elements for Code B Items

Code

Other Related Program Elements
--------------------------------

Description

Fiscal Years

OSIP NO.	Classification
----------	----------------

OSIP NO.	Classification
SOFTWARE DOWNLOAD CAPABILITY	

1-97-XXX1  
OPERATIONAL

# PROCESSOR UPGRADE

1-97-XXX2  
OPERATIONAL

# COMSEC CIRCUITRY REPLACEMENT

1--97-XXX3 OPERATIONAL

# DAMATIZATION

1-97-XXX4  
OPERATIONAL

Totals

OSIP NO.	Classification	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TC	Total
----------	----------------	---------	---------	---------	---------	---------	---------	---------	---------	----	-------

SOFTWARE DOWNLOAD CAPABILITY						
	0.0	1.4	0.0	0.0	0.0	1.4
1-97-XXX1						
OPERATIONAL						

[illegible]

COMSEC CIRCUITRY REPLACEMENT	1--97-XXX3	OPERATIONAL
0.0	0.0	0.0
0.7	1.2	0.0
1.9	0.0	0.0

[illegible][illegible]



INDIVIDUAL MODIFICATION																		
CTT 2 SOFTWARE DOWNLOAD CAPABILITY 1-97-XXX1																		
MODIFICATION TITLE (Cont):																		
FINANCIAL PLAN: (\$ in Millions)																		
FY 1996 and Prior	FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$		
RDT&E																		
PROCUREMENT																		
Kit Quantity																		
Installation Kits	77		0.7														77	0.7
Installation Kits, Nonrecurring																		0.1
Equipment																		
Equipment, Nonrecurring																		
Engineering Change Orders																		
Data																		
Training Equipment																		
Support Equipment																		
Other																		0.1
Interim Contractor Support																		
Installation of Hardware																		
FY 1996 & Prior Eqpt -- Kits																		
FY 1997 Eqpt -- Kits	77		0.5														77	0.5
FY 1998 Eqpt -- Kits																		
FY 1999 Eqpt -- Kits																		
FY 2000 Eqpt -- kits																		
FY 2001 Eqpt -- kits																		
FY 2002 Eqpt -- kits																		
FY 2003 Eqpt -- kits																		
TC Equip-Kits																		
Total Installation	77		0.5														77	0.5
Total Procurement Cost			1.4															1.4

<b>INDIVIDUAL MODIFICATION</b>												Date	February 1998																		
<b>MODIFICATION TITLE:</b> <b>MIGRATION SYSTEM PROCESSOR UPGRADE '1-97-XXX2</b>																															
<b>MODELS OF SYSTEMS AFFECTED:</b> CTT's																															
<b>DESCRIPTION / JUSTIFICATION:</b>  The Integrated Broadcast Services (IBS) Plan mandates that a Common capability and signal parameter be identified and implemented to maintain and insure oversight of the Broadcast networks and commonality/interoperability of all tactical terminal/receivers.  As the IBS networks migrate to the Common Standard, existing systems in the field must pace the networks progression or face obsolescence through the enabling to interoperate with the evolving standards.  This modification replaces existing processors in the CTTs with a standard, logical oriented process that will simplify future upgrades, reduce O&S costs and extend the operational life of the current field assets.																															
<b>DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:</b>																															
<table style="width:100%; border: none;"> <tr> <td style="width: 40%;"></td> <td style="width: 20%; text-align: center;"><b>PLANNED</b></td> <td style="width: 20%; text-align: center;"><b>ACCOMPLISHED</b></td> </tr> <tr> <td><b>PROCESSOR UPGRADE:</b></td> <td></td> <td></td> </tr> <tr> <td>  AWARD MOD</td> <td style="text-align: center;">FEB 98</td> <td></td> </tr> <tr> <td>  CONTRACTOR TEST</td> <td style="text-align: center;">NOV 98</td> <td></td> </tr> <tr> <td>  INSTALLATION START</td> <td style="text-align: center;">FEB 99</td> <td></td> </tr> <tr> <td>  INSTALLATION COMPLETE</td> <td style="text-align: center;">SEP 99</td> <td></td> </tr> </table>															<b>PLANNED</b>	<b>ACCOMPLISHED</b>	<b>PROCESSOR UPGRADE:</b>			AWARD MOD	FEB 98		CONTRACTOR TEST	NOV 98		INSTALLATION START	FEB 99		INSTALLATION COMPLETE	SEP 99	
	<b>PLANNED</b>	<b>ACCOMPLISHED</b>																													
<b>PROCESSOR UPGRADE:</b>																															
AWARD MOD	FEB 98																														
CONTRACTOR TEST	NOV 98																														
INSTALLATION START	FEB 99																														
INSTALLATION COMPLETE	SEP 99																														
<b>Installation Schedule:</b>																															
<b>Inputs</b> <b>Outputs</b>	Pr Yr	FY 1997		FY 1998		FY 1999		FY 2000		FY 2001																					
	Totals	1	2	3	4	1	2	3	4	1	2	3	4																		
<b>Inputs</b> <b>Outputs</b>	FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		Totals																				
	1	2	3	4	1	2	3	4	1	2	3	4																			
<b>METHOD OF IMPLEMENTATION:</b>																															
<b>Contract Dates:</b> FY 1997    FY 1998    FEB 98    4 Months    PRODUCTION LEADTIME:    12 Months																															
<b>Delivery Date:</b> FY 1997    FY 1998    FEB 99    4 Months    FY 1999    MAY 99																															

INDIVIDUAL MODIFICATION														Date		February 1998					
MODIFICATION TITLE (Cont):																		MIGRATION SYSTEM PROCESSOR UPGRADE 1--97-XXX2			
FINANCIAL PLAN: (\$ in Millions)																					
	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL		
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E																					
PROCUREMENT																					
Kit Quantity																					
Installation Kits			10		0.2		108	2.8											118	3.0	
Installation Kits, Nonrecurring Equipment					1.0															1.0	
Equipment, Nonrecurring																					
Engineering Change Orders																					
Data																					
Training Equipment						0.1														0.1	
Support Equipment																					
Other																					
Interim Contractor Support								0.2												0.2	
Installation of Hardware																					
FY 1996 & Prior Eqpt -- Kits																					
FY 1997 Eqpt -- Kits																					
FY 1998 Eqpt -- Kits																					
FY 1999 Eqpt -- Kits																					
FY 2000 Eqpt -- kits																					
FY 2001 Eqpt -- kits																					
FY 2002 Eqpt -- kits																					
FY 2003 Eqpt -- kits																					
TC Equip-Kits																					
Total Installation							118	0.6											118	0.6	
Total Procurement Cost							1.3	3.6												4.9	

INDIVIDUAL MODIFICATION																																																																																																																																																																
													Date	February 1998																																																																																																																																																		
<b>MODIFICATION TITLE:</b> COMSEC CIRCUITRY REPLACEMENT 1-97-XXX3																																																																																																																																																																
<b>MODELS OF SYSTEMS AFFECTED:</b> CTT's																																																																																																																																																																
<b>DESCRIPTION / JUSTIFICATION:</b> <p>The Integrated Broadcast Services (IBS) Plan mandates that a Common capability and signal parameter be identified and implemented to maintain and insure oversight of the Broadcast networks and commonality/interoperability of all tactical terminal/receivers.</p> <p>The networks have directed the integration of new circuitry and standard chips to be included in all terminals to meet COMSEC requirements. Failure to complete this modification will render all existing CTTs (procured FY95 and prior) non mission capable.</p>																																																																																																																																																																
<b>DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:</b> <div style="display: flex; justify-content: space-between;"> <div> Enter Milestones Here.  <u>COMSEC</u>  AWARD MOD  CONTRACTOR TEST  INSTALLATION START  INSTALLATION COMPLETE </div> <div> <b>PLANNED</b>  FEB 98  NOV 98  FEB 99  SEP 99 </div> <div> <b>ACCOMPLISHED</b> </div> </div>																																																																																																																																																																
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INDIVIDUAL MODIFICATION														February 1998						
COMSEC CIRCUITRY REPLACEMENT 1--97-XXX3																				
MODIFICATION TITLE (Cont):																				
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT																				
Kit Quantity																				
Installation Kits					40	0.4	78	0.7											118	1.1
Installation Kits, Nonrecurring Equipment						0.2														0.2
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment						0.1														0.1
Support Equipment																				
Other								0.2												0.2
Interim Contractor Support																				
Installation of Hardware																				
FY 1996 & Prior Eqpt -- Kits																				
FY 1997 Eqpt -- Kits																				
FY 1998 Eqpt -- Kits								0.1											40	0.1
FY 1999 Eqpt -- Kits								0.2											78	0.2
FY 2000 Eqpt -- kits																				
FY 2001 Eqpt -- kits																				
FY 2002 Eqpt -- kits																				
FY 2003 Eqpt -- kits																				
TC Equip-Kits																				
Total Installment							118	0.3											118	0.3
Total Procurement Cost							0.7	1.2												1.9

INDIVIDUAL MODIFICATION												Date	February 1998
MODIFICATION TITLE: DAMATIZATION 1-97-XXX4													
MODELS OF SYSTEMS AFFECTED: CTT'S													
DESCRIPTION / JUSTIFICATION:													
<p>JCS has mandated that <u>all</u> MILSATCOM UHF terminals be Demand Assigned Multiple Access (DAMA) compliant because of increasing communications load on the present MILSTACOM architecture across the theater CINCs.</p> <p>OSD (C3I) has directed that the JTT be DAMA compliant regardless of present IBS Network capabilities and requirements. It is anticipated that IBS will implement DAMA.</p> <p>This modification will provide the capability for the CTT as a migration system to be DAMA compliant along with the objective JTT system and comply with JCS mandates.</p>													
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:													
Enter Milestones Here.												PLANNED	ACCOMPLISHED
DAMA AWARD MOD FEB 98 INITIAL KIT DELIVERY NOV 98 INSTALLATION START FEB 99 INSTALLATION COMPLETE SEP 99													
Installation Schedule:													
		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001			
Pr Yr													
Totals	1	2	3	4	1	2	3	4	1	2	3	4	
Inputs													
Outputs													
		FY 2002		FY 2003		FY 2004		FY 2005		To		Totals	
1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs													118
Outputs													118
METHOD OF IMPLEMENTATION:													
Contract Dates:		FY 1997		Enter Date		FY 1998		FEB 98		4 Months		PRODUCTION LEADTIME: 12 Months	
Delivery Date:		FY 1997		Enter Date		FY 1998		FEB 99		FY 1999		APR 99	



INDIVIDUAL MODIFICATION													
Date February 1998													
MODIFICATION TITLE (Cont): DAMATIZATION 1-97-XXX4													
FINANCIAL PLAN: (\$ in Millions)													
	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		TOTAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty
RDT&E													
PROCUREMENT													
Kit Quantity													
Installation Kits					20	0.2	98	1.2					118
Installation Kits, Nonrecurring Equipment						0.9							1.4
Equipment, Nonrecurring													0.9
Engineering Change Orders													
Data													
Training Equipment						0.1							0.1
Support Equipment													
Other													
Interim Contractor Support													
Installation of Hardware													
FY 1996 & Prior Eqpt -- Kits													
FY 1997 Eqpt -- Kits													
FY 1998 Eqpt -- Kits								0.1					0.1
FY 1999 Eqpt -- Kits							20	0.4					20
FY 2000 Eqpt -- kits							98						98
FY 2001 Eqpt -- kits													
FY 2002 Eqpt -- kits													
FY 2003 Eqpt -- kits													
TC Equip-Kits													
Total Installment							118	0.5					118
Total Procurement Cost						1.2		1.7					2.9

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										DIGITAL TOPOGRAPHIC SPT SYS (DTSS) (TIAR (KA2550))	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Other Related Program Elements:											
Program Elements for Code B Items:		Code: B											
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty	21		37	3	4	12	9	22	16	5		129	
Gross Cost	27.7	7.8	6.7	6.4	7.2	21.2	16.3	9.0	4.6	4.7	77.5	189.2	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	27.7	7.8	6.7	6.4	7.2	21.2	16.3	9.0	4.6	4.7	77.5	189.2	
Initial Spares													
Total Proc Cost	27.7	7.8	6.7	6.4	7.2	21.2	16.3	9.0	4.6	4.7	77.5	189.2	
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:**

The current terrain analysis, topographic and reproduction support provided by Army Engineer Terrain Teams are slow, labor intensive processes that do not meet the needs of the Force XXI digitized battlefield in which the commander must have the ability to rapidly obtain terrain information and topographic products such as cross-country movement, concealment, supply routes, avenues of approach, and line of sight. The Combat Terrain Information Systems (CTIS) Modernization Plan, approved in Apr 94 by the Combat Developer, stated the requirement to proceed immediately with the Downsized DTSS configuration and further identified that Quick Response Multicolor Printer functionality would be incorporated in the DTSS for a single integrated terrain analysis and reproduction capability. It has been determined that the downsized capability is now more appropriate to support highly mobile contingency operations, stability and support operations, and split based operations. The DTSS/QRMP will be deployed at Division, Corps, and Echelons Above Corps in support of these missions. The DTSS/QRMP will automate the updating and processing of terrain information into terrain analysis products, provide rapid reproduction of low volume, up-to-date, large format, full color imagery maps, situation overlays, special graphics (e.g., captured enemy maps) and other topographic and terrain products. Part of imagery exploitation includes the development of a Multispectral Imagery Processor (MSIP), which provides an image map making capability. Due to current world events and the possibility of contingency missions in areas where standard map products are not available, image map production has become an urgent need. The CTIS program office was tasked with the mission to issue the DTSS-MSIP as an interim measure to topographic units. Delivery of the DTSS-MSIPs was completed in Jun 95. Enhancements to the DTSS-MSIPs have been issued to all of the active duty topographic units and includes the delivery of upgraded software and scanners. CTIS systems are vital players in Army Digitization and in the quest for information dominance. CTIS systems operate with the Army Battle Command System architecture.

<b>Exhibit P-40C Budget Item Justification Sheet</b>		Date	February 1998
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		DIGITAL TOPOGRAPHIC SPT SYS (DTSS) (TIAR (KA2550))	
Program Elements for Code B Items	Code	Other Related Program Elements	
<p><b>JUSTIFICATION:</b></p> <p>FY99 funding will be used for procurement of the DTSS/QRMP-Light. The DTSS/QRMP-Light provides combined DTSS and QRMP functionality in a Lightweight Multipurpose Shelter (LMS) mounted on a High Mobility Multipurpose Wheeled Vehicle (HMMWV). DTSS/QRMP systems will be fielded to Army Engineer Terrain Teams in CONUS (FORSCOM), USAEUR, Hawaii, and Korea (PACOM).</p>			

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: DIGITAL TOPOGRAPHIC SPT SYS (DTSS) (TIAR (KA2550))				Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
1. Hardware	A												
a. DTSS-MSIP (Enhancements)		1552	35	44									
b. DTSS Upgrade		2670	2	1335	3855	3	1285	5000	4	1250			
DTSS/QRMP-Heavy (5-ton Upgrade)		250			250						15280	10*	1528
QRMP EMD ISO 20 Upgrade													
c. DTSS/QRMP-Light													
2. Engineering Support													
a. DTSS/QRMP ECP Engineering		500			300			200			775		
b. Misc Out-of-House Engineering		400			400			300			300		
3. Fielding													
a. Total Package Fielding		136			250			275			650		
b. New Equipment Training		68			200			275			650		
c. First Destination Transportation		20			31			66			275		
4. Project Management and Administration		740			740			800			800		
5. Interim Contractor Support		400			360			330					
6. Institutional Training (Hardware Procurement)											2500		
TOTAL		6736			6386			7246			21230		
* Quantity has been adjusted to reflect current program planning													

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature: DIGITAL TOPOGRAPHIC SPT SYS (DTSS) (TIAR (KA2550))					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
a. DTSS-MSIP (Enhancements)										
FY 96	LMC, Fort Washington, PA	C/FP	USA Topo Eng Center	Jan-96	Feb-96	35	44	Yes		
b. DTSS Upgrade										
DTSS/QRMP-Heavy (5-ton Upgrade)										
FY 96	LMC, Fort Washington, PA	SS/FP	USA Topo Eng Center	Aug-96	Aug-97	2	1335	Yes		
FY 97	LMC, Fort Washington, PA	SS/FP	USA Topo Eng Center	Jan-97	Nov-97	3	1285	Yes		
FY 98	TBS	C/FP	USA Topo Eng Center	Feb-98	Apr-99	4	1250	Yes		
c. DTSS/QRMP-Light										
FY 99	TBS	C/FP	USA Topo Eng Center	Nov-98	Oct-99	10	1528	Yes		
<b>REMARKS:</b> FY99 funding will be used for procurement of the DTSS/QRMP-Light. The DTSS/QRMP-Light provides combined DTSS and QRMP functionality in a Lightweight Multipurpose Shelter (LMS) mounted on a High Mobility Multipurpose Wheeled Vehicle (HMMWV). DTSS/QRMP systems will be fielded to Army Engineer Terrain Teams in CONUS (FORSCOM), USAEUR, Hawaii, and Korea (PACOM).										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												TACTICAL EXPLOITATION OF NATIONAL CAPAB (BZ7315)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	85.9	4.6	4.5	1.8	1.6	1.7	4.5	13.2	14.2	16.1	0.0	148.1	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	85.9	4.6	4.5	1.8	1.6	1.7	4.5	13.2	14.2	16.1	0.0	148.1	
Initial Spares													
Total Proc Cost	85.9	4.6	4.5	1.8	1.6	1.7	4.5	13.2	14.2	16.1	0.0	148.1	
Flyaway U/C													
Wpn Sys Proc U/C													

**Description:** The Tactical Exploitation of National Capabilities (TENCAP) Program provides tactical commanders with rapid access to critical information collected by National Intelligence Sources. To date, the program has been responsible for provisioning the AN/TSQ 134(V) (Advanced Electronic Processing and Dissemination System (AEPDS)), the Forward Area Support Terminal (FAST), the Mobile Integrated Tactical Terminal (MITT) and the emerging Tactical Exploitation System (TES) to Army Echelons Above Corps, Corps and maneuver divisions. All systems are characterized as stand alone systems, with multiple communications capability defined in UHF S-Band and terrestrial communications packages, and with the exception of FAST, systems are contained in shelters or vans, with a dedicated primemover and system operators. The TENCAP Program also manages the Enhanced Tactical Radar Correlator (ETRAC) and the Modernized Imagery Exploitation System (MIES) which are funded under the Defense Airborne Reconnaissance Office (DARO), PE 0305154D Defense Airborne Reconnaissance Program (DARP).

Further information may be found at the Tactical Intelligence and Related Activities (TIARA) Congressional Justification Book, Volume II and the Army's TENCAP Master Plan.

**Justification:** The FY98/99 funds procure both military and commercial hardware and software (GOTS/COTS) capabilities to enhance TENCAP systems' performance and to maintain interoperability with National systems and Army tactical communications architecture. The Units procured under this line are components that are incorporated into all TENCAP systems (including ETRAC and MIES) and fall under the TENCAP Common Baseline Project, which addresses common subsystems, planned improvements, key activities and ongoing/planned initiatives determined to have potential application to multiple TENCAP systems.



Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics			Weapon System Type:		P-1 Line Item Nomenclature:					
Equipment					TACTICAL EXPLOITATION OF NATIONAL CAPABILITIES (BZ7315)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revis Avail	RFP Issue Date
a. MITT/FAST/AEPDS (Chariot, SLDCOM)										
FY 97	Classified	Clafd	Classified	2Q97	2Q98	12	152	Yes		
b. GFE for TES										
FY 98 - TMV/TSV Vans	Classified	Clafd	Classified	1Q98	4Q98	3	543	Yes		
FY 99 - DAMA Capable Radios	Classified	Clafd	Classified	2Q99	4Q00	3	563	Yes		
<b>REMARKS:</b> CHARIOT: Mobile S-Band Transceiver Terminal DAMA: Demand Assigned Multiple Access for UHF Satellite Communications GFE: Government Furnished Equipment SLDCOM: Satellite Launch Dispenser Communications TMV: Tactical Mission Van TSV: Tactical Support Van										



Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:				P-1 Item Nomenclature:									
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				JOINT TACTICAL GROUND STATION MODS (BZ8420)									
Program Elements for Code B Items:				Other Related Program Elements:									
Code:													
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	0.0	0.0	0.0	0.0	2.8	2.6	0.0	0.0	0.0	0.0	0.0	5.4	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	0.0	0.0	2.8	2.6	0.0	0.0	0.0	0.0	0.0	5.4	
Initial Spares													
Total Proc Cost	0.0	0.0	0.0	0.0	2.8	2.6	0.0	0.0	0.0	0.0	0.0	5.4	
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:**  
 The Joint Tactical Ground Station (JTGS) Modification program will integrate into JTGS, the Joint Tactical Information Distribution System (JTIDS) which will distribute JTGS data via the Joint Theater Missile Defense (JTMDD) communication nets; fuse Defense Support Program (DSP) sensor data with data from other sensors for improved cueing and predicted ground impact point (PGIP) accuracies; and calibrate sensor location via static sources or beacons.

**JUSTIFICATION:**  
 FY99 funding procures and integrates JTIDS radios into JTGS which are needed to interface directly with the Joint Theater Warning Net.



INDIVIDUAL MODIFICATION																																																																																																																			
										Date	February 1998																																																																																																								
<b>MODIFICATION TITLE:</b> Sensor Fusion TBD1																																																																																																																			
<b>MODELS OF SYSTEMS AFFECTED:</b> Data Processing Subsystem																																																																																																																			
<b>DESCRIPTION / JUSTIFICATION:</b> <p>The Sensor Fusion modification adds the capability to integrate other sensor data with Defense Support Program (DSP) data to improve accuracy of the predicted ground impact point (PGIP) and state vector. JTAGS currently receives and processes data from the DSP constellation of satellites only. The overall accuracy and utility of data provided to theater forces could be greatly enhanced and reduction in system performance risk obtained from fusion of DSP data with data from other sensors. Fusion is currently a growth requirement in the JTAGS Operational Requirements Document (ORD). Fusion will allow the program to move toward the required PGIP Program Objective.</p>																																																																																																																			
<b>DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:</b> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <b>PLANNED</b>            Initiate Development 1QFY97            Complete Development 1QFY98            IPR Production Decision 1QFY98         </td> <td style="width: 50%; vertical-align: top;"> <b>ACCOMPLISHED</b>            1QFY97            1QFY98         </td> </tr> </table>												<b>PLANNED</b> Initiate Development 1QFY97 Complete Development 1QFY98 IPR Production Decision 1QFY98	<b>ACCOMPLISHED</b> 1QFY97 1QFY98																																																																																																						
<b>PLANNED</b> Initiate Development 1QFY97 Complete Development 1QFY98 IPR Production Decision 1QFY98	<b>ACCOMPLISHED</b> 1QFY97 1QFY98																																																																																																																		
<b>Installation Schedule:</b> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <th rowspan="2">Pr Yr</th> <th colspan="4">FY 1997</th> <th colspan="4">FY 1998</th> <th colspan="4">FY 1999</th> <th colspan="4">FY 2000</th> <th colspan="4">FY 2001</th> </tr> <tr> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> <th>1</th><th>2</th><th>3</th><th>4</th> </tr> <tr> <td>Totals</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>1</td><td>2</td><td>3</td><td>4</td> </tr> <tr> <td>Inputs</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> </tr> <tr> <td>Outputs</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td>5</td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> </tr> </table>												Pr Yr	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Inputs																					Outputs							5													
Pr Yr	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001																																																																																																		
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4																																																																																															
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4																																																																																															
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Pr Yr	FY 2002				FY 2003				FY 2004				FY 2005				Totals																																																																																																		
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	Months																																																																																																	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		5																																																																																																	
Inputs																																																																																																																			
Outputs																		5																																																																																																	
<b>METHOD OF IMPLEMENTATION:</b> <table style="width: 100%; border: none;"> <tr> <td style="width: 25%;">Contract Dates:</td> <td style="width: 15%;">FY 1997</td> <td style="width: 15%;">Enter Date</td> <td style="width: 15%;">FY 1998</td> <td style="width: 15%;">Enter Date</td> <td style="width: 15%;">FY 1999</td> <td style="width: 15%;">Enter Date</td> <td style="width: 10%;">PRODUCTION LEADTIME:</td> <td style="width: 10%;">5</td> <td style="width: 10%;">Months</td> </tr> <tr> <td>Delivery Date:</td> <td>FY 1997</td> <td>Enter Date</td> <td>FY 1998</td> <td>Enter Date</td> <td>FY 1999</td> <td>Enter Date</td> <td></td> <td></td> <td></td> </tr> </table>												Contract Dates:	FY 1997	Enter Date	FY 1998	Enter Date	FY 1999	Enter Date	PRODUCTION LEADTIME:	5	Months	Delivery Date:	FY 1997	Enter Date	FY 1998	Enter Date	FY 1999	Enter Date																																																																																							
Contract Dates:	FY 1997	Enter Date	FY 1998	Enter Date	FY 1999	Enter Date	PRODUCTION LEADTIME:	5	Months																																																																																																										
Delivery Date:	FY 1997	Enter Date	FY 1998	Enter Date	FY 1999	Enter Date																																																																																																													

INDIVIDUAL MODIFICATION														
Sensor Fusion TBD1														
MODIFICATION TITLE (Cont):														
FINANCIAL PLAN: (\$ in Millions)														
	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E				0.8		0.8								1.6
PROCUREMENT														
Kit Quantity					5	0.6								5
Installation Kits, Nonrecurring														0.6
Equipment														
Equipment, Nonrecurring														
Engineering Change Orders														
Data														
Training Equipment														
Support Equipment														
Other														
Interim Contractor Support														
Installation of Hardware														
FY 1996 & Prior Eqpt -- Kits														
FY 1997 Eqpt -- Kits														
FY 1998 Eqpt -- Kits														
FY 1999 Eqpt -- Kits														
FY 2000 Eqpt -- kits					5	0.1								5
FY 2001 Eqpt -- kits														0.1
FY 2002 Eqpt -- kits														
FY 2003 Eqpt -- kits														
TC Equip-Kits														
Total Installation					5	0.1								5
Total Procurement Cost						0.7								0.7

INDIVIDUAL MODIFICATION																
MODIFICATION TITLE: Beacons TBD2										Date						
February 1998																
MODELS OF SYSTEMS AFFECTED: Data Processing Subsystem																
DESCRIPTION / JUSTIFICATION:																
<p>Bias removal techniques (such as beacons or other measures) adds the ability to improve the Estimated Launch Point (ELP) accuracy. Line-of-sight errors have been significantly reduced by the use of existing bias removal techniques. This effort will evaluate means of achieving even greater accuracy through selective use of additional bias elimination methods. A study will be conducted initially to identify the most effective means of implementing this improvement. This effort is required to achieve the ELP program objective.</p>																
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:																
PLANNED					ACCOMPLISHED											
Initiate Development					1QFY97					1QFY97						
Complete Development					2QFY98											
IPR Production Decision					2QFY98											
Installation Schedule:																
Pr Yr		FY 1997			FY 1998			FY 1999			FY 2000			FY 2001		
Totals		1 2 3 4			1 2 3 4			1 2 3 4			1 2 3 4			1 2 3 4		
Inputs																
Outputs					6											
Totals																
FY 2002		FY 2003			FY 2004			FY 2005			To			Complete		
1 2 3 4		1 2 3 4			1 2 3 4			1 2 3 4			1 2 3 4			1 2 3 4		
Inputs																
Outputs																
Totals																
6 6																
METHOD OF IMPLEMENTATION:																
Contract Dates:					ADMINISTRATIVE LEADTIME:					PRODUCTION LEADTIME:						
FY 1997 Enter Date					FY 1998 Enter Date					FY 1999 Enter Date						
FY 1997 Enter Date					FY 1998 Enter Date					FY 1999 Enter Date						
Delivery Date:					5 Months					3 Months						

INDIVIDUAL MODIFICATION														Date	February 1998					
Beacons TBD2																				
MODIFICATION TITLE (Cont):																				
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E				0.9		0.6														1.5
PROCUREMENT																				
Kit Quantity					6	2.0													6	2.0
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other																				
Interim Contractor Support																				
Installation of Hardware																				
FY 1996 & Prior Eqpt -- Kits																				
FY 1997 Eqpt -- Kits																				
FY 1998 Eqpt -- Kits																				
FY 1999 Eqpt -- Kits																				
FY 2000 Eqpt -- kits					6	0.1													6	0.1
FY 2001 Eqpt -- kits																				
FY 2002 Eqpt -- kits																				
FY 2003 Eqpt -- kits																				
TC Equip-Kits																				
Total Installation					6	0.1													6	0.1
Total Procurement Cost						2.1														2.1

<b>INDIVIDUAL MODIFICATION</b>													
MODIFICATION TITLE: Joint Tactical Information Distribution System (JTIDS) TBD3										Date		February 1998	
MODELS OF SYSTEMS AFFECTED: Communication Subsystem													
DESCRIPTION / JUSTIFICATION:													
<p>The JTIDS Operational Requirements Document (ORD) requires that the system be capable of accepting and using JTIDS. This improvement will satisfy the ORD requirement. Integration of the JTIDS radios will permit JTIDS to interface directly with the Joint Theater Warning Net, which will support the dissemination of information to all elements of Theater Missile Defense (TMD) operations.</p>													
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:													
				<b>PLANNED</b>		<b>ACCOMPLISHED</b>							
Initiate Development				3QFY97		3QFY97							
Complete Development				1QFY99									
IPR Production Decision				1QFY99									
Installation Schedule:													
Pr Yr		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001			
Totals		1	2	3	4	1	2	3	4	1	2	3	4
Inputs													
Outputs								5					
Totals													
FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		FY 2007			
1		2	3	4	1	2	3	4	1	2	3	4	
Inputs													
Outputs													
Totals													
METHOD OF IMPLEMENTATION:													
Contract Dates:				ADMINISTRATIVE LEADTIME: 2 Months				PRODUCTION LEADTIME: 3 Months					
FY 1997				FY 1998				FY 1999					
FY 1997				FY 1998				FY 1999					
Delivery Date:				Enter Date				Enter Date					
				Enter Date				Enter Date					

INDIVIDUAL MODIFICATION													
Date February 1998													
Joint Tactical Information Distribution System (JTIDS) TBD3													
MODIFICATION TITLE (Cont):													
FINANCIAL PLAN: (\$ in Millions)													
	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		TOTAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty
RDT&E			0.3		1.5		0.1						1.9
PROCUREMENT													
Kit Quantity							5	2.5					5
Installation Kits													
Installation Kits, Nonrecurring													
Equipment													
Equipment, Nonrecurring													
Engineering Change Orders													
Data													
Training Equipment													
Support Equipment													
Other													
Interim Contractor Support													
Installation of Hardware													
FY 1996 & Prior Eqpt -- Kits													
FY 1997 Eqpt -- Kits													
FY 1998 Eqpt -- Kits													
FY 1999 Eqpt -- Kits							5	0.1					5
FY 2000 Eqpt -- kits													
FY 2001 Eqpt -- kits													
FY 2002 Eqpt -- kits													
FY 2003 Eqpt -- kits													
TC Equip-Kits													
Total Installation							5	0.1					5
Total Procurement Cost							2.6						2.6



Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												TROJAN (TIARA) (BA0326)
Code:												Other Related Program Elements:
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	110.3	22.2	18.5	4.2	3.7	4.0	4.4	4.5	4.5	4.5		180.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	110.3	22.2	18.5	4.2	3.7	4.0	4.4	4.5	4.5	4.5		180.8
Initial Spares												
Total Proc Cost	110.3	22.2	18.5	4.2	3.7	4.0	4.4	4.5	4.5	4.5		180.8
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: TROJAN is a combined operational and readiness mission system which uses advanced networking technology to provide rapid relay; secure communications to include voice, data, facsimile; and electronic reconnaissance support to U.S. forces throughout the world. TROJAN operations may be easily tailored to fit military intelligence unit training schedules, and surged during specific events to involve every aspect of the tactical intelligence collection, processing analysis and reporting efforts.

JUSTIFICATION: FY99 funds collection and processing system upgrades, dissemination enhancements, networking improvements, and migration to a National Common Remoted Systems (CRS) architecture.



Exhibit P-40, Budget Item Justification Sheet												
Appropriation / Budget Activity/Serial No:		Date: February 1998										
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Item Nomenclature: TROJAN CLASSIC (TIARA) (BA0331)										
Program Elements for Code 8 Items:		Other Related Program Elements:										
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	92.0	3.1	3.2	2.1	3.3	3.5	4.4	4.5	4.5	4.5		125.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	92.0	3.1	3.2	2.1	3.3	3.5	4.4	4.5	4.5	4.5		125.0
Initial Spares												
Total Proc Cost	92.0	3.1	3.2	2.1	3.3	3.5	4.4	4.5	4.5	4.5		125.0
Flyaway U/C												
Wpn Sys Proc U/C												

**DESCRIPTION:** TROJAN is a combined operational and readiness mission system which uses advanced networking technology to provide rapid radio relay; secure communications and electronic reconnaissance support to U.S. forces throughout the world. TROJAN operations may be easily tailored to fit military intelligence unit training schedules, and surged during specific events to involve every aspect of the tactical intelligence collection, processing, analysis and reporting efforts.

TROJAN consist of four subsystems: remote receiver groups, located at border sites; monitor control groups to include analyst workstation groups, located at unit garrisons; digital data switching group which provides the automated switching capability; and switch extensions which provide operational control, intelligence dissemination, administrative and logistics functions.

**JUSTIFICATION:** FY99 funds for collection and processing system upgrades and migration to a National Common Remoted Systems (CRS) architecture.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: TROJAN CLASSIC (TIARA) (BA0331)				Weapon System Type:		Date: February 1998	
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99					
ID	cd		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
		Hardware Procurement	2501	VAR	VAR	1439	VAR	VAR	2575	VAR	VAR	2855	VAR	VAR
		Engineering/Technical Support												
		In-House Contractor	500 175			500 175			500 175			500 175		
		TOTAL	3176			2114			3250			3530		

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998											
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics			Weapon System Type:		P-1 Line Item Nomenclature:																	
Equipment			Contract Method and Type		Location of PCO		Award Date		Date of First Delivery		QTY Each		Unit Cost \$000		Specs Avail Now?		Date Reven Avail		RFP Issue Date			
WBS Cost Elements: Fiscal Years			Contractor and Location																			
Hardware Procurement FY96			Hewlett Packard, Rockville, MD Andrews-SICOM, Garland, TX Converse, Woodbury, NJ ESI, Richardson, TX ASC, Winterpark, FL		CECOM CECOM CECOM CECOM CECOM		Jan-96 Mar-96 Apr-96 Jun-96 Jun-96		Jun-96 Sep-96 Oct-96 Aug-96 Dec-96		VAR VAR VAR VAR VAR		VAR VAR VAR VAR VAR		YES YES YES YES YES		NO NO NO NO NO					
Hardware Procurement FY97			Converse, Woodbury, NJ ESI, Richardson, TX Hewlett Packard, MD ASC, Winterpark, FL		CECOM CECOM CECOM CECOM		Nov-96 Jan-97 Feb-97 Apr-97		Apr-97 May-97 Jul-97 Aug-97		VAR VAR VAR VAR		VAR VAR VAR VAR		YES YES YES YES		NO NO NO NO					
Hardware Procurement FY98			Hewlett Packard, MD TBS ASC, Winterpark, FL Sun Microsystems CISCO Systems, Waltham MA OAO, Greenbelt, MD		CECOM CECOM CECOM GSA GSA NIH		Dec-97 Feb-98 Apr-98 Apr-98 May-98 Jul-98		Apr-98 Jun-98 Aug-98 Jul-98 Aug-98 Oct-98		VAR VAR VAR VAR VAR VAR		VAR VAR VAR VAR VAR VAR		YES YES YES YES YES YES		NO NO NO NO NO NO					
Hardware Procurement FY99			Andrews-SICOM, Garland, TX Sun Microsystems CISCO Systems, Waltham MA OAO, Greenbelt, MD		CECOM GSA GSA NIH		Nov-98 Dec-98 Mar-99 Apr-99		May-99 May-99 Jul-99 Sep-99		VAR VAR VAR VAR		VAR VAR VAR VAR		YES YES YES YES		NO NO NO NO					
REMARKS:			Peculiarities of individual system mission and fielding locations require each TROJAN subsystem to be unique with compatible and interoperable hardware and software.																			
			ESI, Electrospace Systems Incorporated ASC, Advanced Systems Corporation																			

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												TROJAN SPIRIT - TERMINALS (TIARA) (BA0333)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	11.5	17.4	15.3	2.1	0.5	0.5	0.0	0.0	0.0	0.0	0.0	47.2	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	11.5	17.4	15.3	2.1	0.5	0.5	0.0	0.0	0.0	0.0	0.0	47.2	
Initial Spares													
Total Proc Cost	11.5	17.4	15.3	2.1	0.5	0.5	0.0	0.0	0.0	0.0	0.0	47.2	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION: The TROJAN SPIRIT II is a collection of electronics equipment which provides contingency forces with an operational readiness capability providing an intelligence processing and dissemination system consisting of secure voice, secure data, secure facsimile and secondary imagery worldwide via an organic long haul satellite communications network split-based, multi-echelon force projection operations.

TROJAN SPIRIT II systems consist of five major subsystems: power generation subsystem; communications subsystem (C, Ku, X Bands; (HF/MSE/CTT receive only) UHF SatCom); prime mission movers with shelters; and communications interface equipment.

JUSTIFICATION: FY99 funds to provide intelligence/communications enhancements to the TROJAN automated switching architecture and TROJAN Network Control Center (TNCC).

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: TROJAN SPIRIT - TERMINALS (TIARA) (BA0333)				Weapon System Type:		Date: February 1998	
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99					
ID	CD		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
		Hardware TROJAN Spirit II	15336	10	1534	2065	VAR	VAR	479	VAR	VAR	461	VAR	VAR
		TOTAL	15336			2065			479			461		

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature: TROJAN SPIRIT - TERMINALS (TIARA) (BA0333)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$OOO	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Hardware FY96 FY 97 FY 98 FY 99	ESI, Richardson, TX ESI, Richardson, TX Raytheon, Richardson, TX TBS	C/FP(Op) C/FP(Op) C/FP(Op) C/FP(Op)	CECOM CECOM CECOM CECOM	Oct-95 Jan-97 Aug-98 Dec-98	Aug-96 Jul-97 Jul-98 Jul-99	10 VAR VAR VAR	1534 VAR VAR VAR	YES YES YES YES	NO NO NO NO	
<b>REMARKS:</b> ESI, Electrospace Systems Incorporated MAP Mobile Antenna Platform										





Exhibit P-40, Budget Item Justification Sheet													Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:												
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		MOD OF IN-SVC EQUIP (INTEL SPT) (TIARA) (BZ9750)												
Program Elements for Code B Items:		Other Related Program Elements:												
Code:		Code:												
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog			
Proc Qty														
Gross Cost	177.4	13.2	18.9	14.4	4.9	14.3	12.4	12.8	21.2	0.0	291.2			
Less PY Adv Proc														
Plus CY Adv Proc														
Net Proc (P-1)	177.4	13.2	18.9	14.4	4.9	14.3	12.4	12.8	21.2	0.0	291.2			
Initial Spares		11.6	10.2	1.5	1.4						24.7			
Total Proc Cost	177.4	24.8	29.1	15.9	3.1	14.3	12.4	12.8	21.2	0.0	315.9			
Flyaway U/C														
Wpn Sys Proc U/C														

**DESCRIPTION:** This is a roll line containing modification efforts in baby Standard Study Numbers as follows:  
 Mods for Intelligence Electronic Warfare (IEW) Heavy Force Systems (BZ9751) provide for Enhanced TRACKWOLF, AN/TSQ-199, materiel changes to provide Communication Satellite Intercept (CSI) capability and additional workstation positions for improved field reporting and increased collection and processing capabilities, and provide increased communication, flexibility and handling throughout the Direction Finding network. Enhanced TRACKWOLF is a High Frequency (HF) Skywave Communications Intelligence system which supports Echelons Above Corps commanders by supplying intelligence and targeting information to theater level All Source Analysis System.

Mods for IEW Light Force Systems (BZ9752) provide for three materiel change/upgrades to: (1) TRAILBLAZER, AN/TSQ-138, SINGGARS Interference Cancellation upgrade to resolve problems (hardware and software) associated with integration of the Single Channel Ground and Airborne Radio system (SINGGARS). SINGGARS is the new generation of Combat Net Radio (CNR). SINGGARS is replacing the AN/VRC-12 family of single channel radios. The integration of SINGGARS requires other hardware and software changes because of differences from the AN/VRC-12 series radios being replaced. (2) TEAMMATE (TM), AN/TRQ-32, Tactical Proficiency Trainer (TM TPT) materiel change will allow the unit commander to conduct operator sustainment training as required while the operator personnel are in garrison on their own system. Operationally, the concept design works by injecting a modulated Radio Frequency (RF) signal into the TM's RF Distribution Unit from which simulations could be made for the TEAMMATE system with a realistic environment simulator that will simulate communication intercept, AN/TSQ-32A(V)2 Direction Finding (DF), DF net, and Command, Control and Reporting capabilities as part of the TM systems function. (3) The AN/PRD-13(V)2 provides for an organic system that can intercept, DF and provide threat warning and situational awareness information directly to the support unit. The system is modular, very light weight, with minimal power requirements and configurable to support man-pack operations. Due to a number of operational and technical reasons, and changes in tactical Signals

<b>Exhibit P-40C Budget Item Justification Sheet</b>			Date	February 1998
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature		
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		MOD OF IN-SVC EQUIP (INTEL SPT) (TIARA) (BZ9750)		
Program Elements for Code B Items	Code	Other Related Program Elements		
<p>Intelligence (SIGINT) architecture that are rapidly evolving out of the SIGINT, netting is not the way of the future, opting instead for rapid synchronization of those individual collections in a sanctuary environment.</p> <p>JUSTIFICATION. The FY99 funds provide for a Headquarters Department of the Army requirement for the procurement of AN/PRD-13(V)2 systems in support of Special Operations Command to US Army Light Divisions. Division commanders and/or G-2 has provided written operational need for a follow on system replacement for the AN/PRD-12, vice the currently proposed system upgrades to the AN/PRD-12.</p>				

Exhibit P-40M Budget Item Justification Sheet												
Appropriation / Budget Activity/Serial No.			Date									
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			February 1998									
Program Elements for Code B Items			MOD OF IN-SVC EQUIP (INTEL SPT) (TIARA) (BZ9750)									
			P-1 Item Nomenclature									
			Other Related Program Elements									
			Code									
			Fiscal Years									
Description	OSIP NO.	Classification	FY 1996 & Prior	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	TC	Total
SINGGARS Interference Cancellation												
1-91-07-0003		Operational	16.5	14.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0	32.6
TEAMMATE Tactical Proficiency Trainer (TPT)												
1-93-07-0002		Operational	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5
Enhance TRACKWOLF Mods												
1-93-07-0009		Operational	19.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.9
AN/PRD-13 (V) 2 Procurement												
1-97-07-0001		Operational	0.0	0.0	0.0	4.9	8.1	0.0	0.0	0.0	0.0	13.0
GBCS Upgrades												
1-97-07-0002		Operational	0.0	0.0	0.0	0.0	6.2	12.4	12.8	21.2	0.6	53.2
Totals			42.9	14.4	1.7	4.9	14.3	12.4	12.8	21.2	0.6	125.2

\* Note: FY96 column reflects FY96 and prior years.

<b>INDIVIDUAL MODIFICATION</b>										Date	February 1998																																																																																				
<b>MODIFICATION TITLE:</b> SINGGARS Interference Cancellation 1-91-07-0003																																																																																															
<b>MODELS OF SYSTEMS AFFECTED:</b> ANTSQ-138(TRAILBLAZER)																																																																																															
<b>DESCRIPTION / JUSTIFICATION:</b> <p>This Materiel Change will resolve problems (hardware and software) associated with integration of the Single Channel Ground and Airborne Radio system (SINGGARS) into Intelligence Electronic Warfare (IEW) systems. SINGGARS is the new generation of Combat Net Radio (CNR). It is replacing the AN/VR-12 family of single channel radios. Fieldings are scheduled to continue through FY98 until all of the Army is converted to SINGGARS. SINGGARS provides effective Electronic Counter-Countermeasures (ECCM) by randomly hopping to preassigned frequencies. This random hopping causes anomalies in IEW mission equipment which requires hardware/software changes. In addition, its integration into IEW systems requires other hardware and software changes because of differences from the AN/VR-12 series radios being replaced.</p>																																																																																															
<b>DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:</b> <table style="width:100%; border: none;"> <tr> <td style="width:40%;"></td> <td style="width:20%; text-align: center;">Planned</td> <td style="width:40%; text-align: center;">Accomplished</td> </tr> <tr> <td>Inprocess Review/Production Decision</td> <td style="text-align: center;">Sep 93</td> <td style="text-align: center;">Sep 93</td> </tr> <tr> <td>Contract Award for 3 Models</td> <td style="text-align: center;">Mar 94</td> <td style="text-align: center;">Mar 94</td> </tr> <tr> <td>Competitive Production Contract Award</td> <td style="text-align: center;">Jun 96</td> <td style="text-align: center;">Jun 96</td> </tr> <tr> <td>Materiel Fielding Agreement/MWO Field Plan Negotiated</td> <td style="text-align: center;">Feb 98</td> <td></td> </tr> <tr> <td>First Kit Applied</td> <td style="text-align: center;">Oct 97</td> <td></td> </tr> <tr> <td>Last Kit Applied</td> <td style="text-align: center;">Dec 99</td> <td></td> </tr> </table>													Planned	Accomplished	Inprocess Review/Production Decision	Sep 93	Sep 93	Contract Award for 3 Models	Mar 94	Mar 94	Competitive Production Contract Award	Jun 96	Jun 96	Materiel Fielding Agreement/MWO Field Plan Negotiated	Feb 98		First Kit Applied	Oct 97		Last Kit Applied	Dec 99																																																																
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<b>Installation Schedule:</b> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Pr Yr</th> <th colspan="4">FY 1997</th> <th colspan="4">FY 1998</th> <th colspan="4">FY 1999</th> <th colspan="4">FY 2000</th> <th colspan="4">FY 2001</th> </tr> <tr> <td>Totals</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>1</td><td>2</td><td>3</td><td>4</td> <td>1</td><td>2</td><td>3</td><td>4</td> </tr> <tr> <td>Inputs</td> <td>10</td><td></td><td>3</td><td>4</td> <td></td><td></td><td>8</td><td>6</td> <td></td><td></td><td>6</td><td>6</td> <td></td><td></td><td>7</td><td></td> <td></td><td></td><td></td><td></td> </tr> <tr> <td>Outputs</td> <td></td><td></td><td></td><td></td> <td>5</td><td>10</td><td>5</td><td>10</td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> <td></td><td></td><td></td><td></td> </tr> </table>												Pr Yr	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001				Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Inputs	10		3	4			8	6			6	6			7						Outputs					5	10	5	10												
Pr Yr	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001																																																																														
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4																																																																											
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Pr Yr	FY 2002				FY 2003				FY 2004				FY 2005				Totals																																																																														
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4																																																																															
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<b>METHOD OF IMPLEMENTATION:</b> <table style="width:100%; border: none;"> <tr> <td style="width:33%;"></td> <td style="width:33%; text-align: center;">ADMINISTRATIVE LEADTIME:</td> <td style="width:34%; text-align: center;">9 Months</td> </tr> <tr> <td>Contract Dates:</td> <td style="text-align: center;">FY 1997   Dec 96</td> <td style="text-align: center;">FY 1998   FY 1999</td> </tr> <tr> <td>Delivery Date:</td> <td style="text-align: center;">FY 1997   Feb 98</td> <td style="text-align: center;">FY 1998   FY 1999</td> </tr> </table>													ADMINISTRATIVE LEADTIME:	9 Months	Contract Dates:	FY 1997   Dec 96	FY 1998   FY 1999	Delivery Date:	FY 1997   Feb 98	FY 1998   FY 1999																																																																											
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INDIVIDUAL MODIFICATION													
SINGGARS Interference Cancellation 1-91-07-0003													
MODIFICATION TITLE (Cont):													
FINANCIAL PLAN: (\$ in Millions)													
	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		TOTAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	
RDT&E													
PROCUREMENT													
Kit Quantity	10	14.0	27	12.6									37
Installation Kits													26.6
Installation Kits, Nonrecurring Equipment													
Equipment, Nonrecurring													
Engineering Change Orders													
Data													0.5
Training Equipment													0.3
Support Equipment													
Other													3.5
Interim Contractor Support													
Installation of Hardware													
FY 1996 & Prior Eqpt -- Kits	3	0.1											10
FY 1997 Eqpt -- Kits													0.3
FY 1998 Eqpt -- Kits													27
FY 1999 Eqpt -- Kits													
FY 2000 Eqpt -- kits													
FY 2001 Eqpt -- kits													
FY 2002 Eqpt -- kits													
FY 2003 Eqpt -- kits													
TC Equip-Kits													
Total Installation	3	0.1											37
Total Procurement Cost		16.5		14.4		1.6							32.6

INDIVIDUAL MODIFICATION																																																																																														
										Date	February 1998																																																																																			
<b>MODIFICATION TITLE:</b> TEAMMATE Tactical Proficiency Trainer (TPT) 1-93-07-0002																																																																																														
<b>MODELS OF SYSTEMS AFFECTED:</b> Radio Set, Receiving AN/TRQ-32, SSN: V07700																																																																																														
<b>DESCRIPTION / JUSTIFICATION:</b> TEAMMATE Tactical Proficiency Trainer (TM TPT) will allow the unit commander to conduct operator sustainment training as required while the operator personnel are in garrison on their own system. The TM TPT requirement is documented in Operational Requirements Document dated 7 Dec 92 and is required for systems fielded to active and reserve units. TM TPT will greatly enhance operator proficiency training and is an absolute requirement for TEAMMATE systems fielded to the Regional Training Sites Intelligence - SIGINT (RTSI-S) established for the in garrison training of reserve forces. Concept design includes two Versa Module Euro card (VME) circuit cards with cabling and two Computer Software Configuration Items (CSCI). Operationally, the concept design works by injecting a modulated RF signal into the TEAMMATE's Radio Frequency (RF) Distribution Unit from which simulations are made for the TEAMMATE system with a realistic environment simulator that will simulate communication intercept, AN/TRQ-32A(V)2 Direction Finding (DF), DF net, and Command, Control and Reporting capabilities as part of the TM systems function. TM TPT will reduce admin TDY costs associated with training.																																																																																														
<b>DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:</b> <div style="display: flex; justify-content: space-between;"> <div> <b>Contract Award Date</b>            First Production Hardware Delivered            Materiel Fielding Agreement/MWO Fielding Plan Negotiated            First Kit Applied            Last Kit Applied            FY97 installation of hardware was accomplished by the contractor fielding team within funds on contract.         </div> <div> <b>PLANNED:</b> Dec 93                          May 95                          May 95                          Aug 95                          Nov 96         </div> <div> <b>ACCOMPLISHED:</b> Dec 93                              Jun 95                              May 95                              Aug 95                              Nov 96         </div> </div>																																																																																														
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Pr Yr	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001																																																																													
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Totals	FY 2002				FY 2003				FY 2004				FY 2005				Totals																																																																													
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	To																																																																												
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<b>METHOD OF IMPLEMENTATION:</b> Contract Dates: FY 1997 Delivery Date: FY 1997																																																																																														
<b>ADMINISTRATIVE LEADTIME:</b> 12 Months <b>PRODUCTION LEADTIME:</b> 12 Months FY 1999 FY 1999																																																																																														

INDIVIDUAL MODIFICATION																			
Date February 1998																			
TEAMMATE Tactical Proficiency Trainer (TPT) 1-93-07-0002																			
FINANCIAL PLAN: (\$ in Millions)																			
FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																			
PROCUREMENT																			
Kit Quantity		71	2.8															71	2.8
Installation Kits			1.7																1.7
Installation Kits, Nonrecurring Equipment																			
Equipment, Nonrecurring			0.2																0.2
Engineering Change Orders			0.6																0.6
Data																			
Training Equipment																			
Support Equipment			0.6																0.6
Other			0.5																0.5
Interim Contractor Support																			
Installation of Hardware																			
FY 1996 & Prior Eqpt -- Kits		68	0.1	3														71	0.1
FY 1997 Eqpt -- Kits																			
FY 1998 Eqpt -- Kits																			
FY 1999 Eqpt -- Kits																			
FY 2000 Eqpt -- kits																			
FY 2001 Eqpt -- kits																			
FY 2002 Eqpt -- kits																			
FY 2003 Eqpt -- kits																			
TC Equip-Kits																			
Total Installation		68	0.1	3														71	0.1
Total Procurement Cost			6.5																6.5



INDIVIDUAL MODIFICATION												Date	February 1998
MODIFICATION TITLE: Enhanced TRACKWOLF Mods 1-93-07-0009													
MODELS OF SYSTEMS AFFECTED: TRACKWOLF, AN/TSQ-152, SSN: V18200; Enhanced TRACKWOLF, AN/TSQ-199, SSN: V18200													
DESCRIPTION / JUSTIFICATION:													
<p>TRACKWOLF(TW)/ENHANCED TRACKWOLF (ETW) are High Frequency (HF) Skywave Communications Intelligence systems which support Echelons Above Corps commanders by supplying intelligence and targeting information to theater level All Source Analysis Systems. Materiel Changes (MC) will provide National and Army intelligence communities with a collection asset better equipped to meet the requirements of a rapidly changing and highly diverse HF environment. There are a number of enhancements which have been identified to keep the unit abreast of modern technological advances and changing threat. ETW is a congressionally directed program to resolve transportability shortfalls of the original TW system noted after operation DESERT STORM. ETW is housed entirely within transit cases for rapid deployment, ease of set up and tear down, and to allow maximum flexibility of power source selection. Software mods will allow for the automatic detection of the most modern modulations. MC's will provide analytical operators more extensive data base management functionality and improved in-garrison and field reporting capability.</p>													
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:													
<p>1. Add ECP 40, SATCOM capability DF Flashnet to TRACKWOLF - INSTALLATION COMPLETE OCT95</p> <p>2.3.4. Add ECP 43 Improved audio recorder, add ECP 41 Squelch control, add ECP 44 Crosshair to TRACKWOLF - INSTALLATION COMPLETE Dec 95.</p> <p>5.6 Add ECP 1 to Enhanced TRACKWOLF (ETW), Communication Satellite Intercept Capability, and add ECP 2 additional workstation positions to ETW - INSTALLATION COMPLETE PLANNED FOR FEB98. Note ETW SATCOM Intercept mod will require minor installation (plug in antenna) that the unit can perform and will not require installation costs in FY98.</p>													
Installation Schedule:													
Pr Yr		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001			
Totals		1	2	3	4	1	2	3	4	1	2	3	4
Inputs													
Outputs													
Totals		5											
		5											
Pr Yr		FY 2002		FY 2003		FY 2004		FY 2005		FY 2006		Totals	
Totals		1	2	3	4	1	2	3	4	1	2	3	4
Inputs													
Outputs													
Totals		6											
		6											
METHOD OF IMPLEMENTATION:													
Contract Dates:				FY 1997				ADMINISTRATIVE LEADTIME:				Months	
Delivery Date:				FY 1997				PRODUCTION LEADTIME:				Months	
				FY 1998				FY 1999				FY 1999	

INDIVIDUAL MODIFICATION														Date		February 1998				
MODIFICATION TITLE (Cont): Enhance TRACKWOLF Mods 1-93-07-0009																				
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RD&E																				
PROCUREMENT																				
Kit Quantity	6	17.6																	6	17.6
Installation Kits																				
Installation Kits, Nonrecurring Equipment																				
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				0.6
Support Equipment																				0.8
Other																				0.5
Interim Contractor Support																				
Installation of Hardware																				
FY 1996 & Prior Eqpt -- Kits	5	0.4																	6	0.4
FY 1997 Eqpt -- Kits																				
FY 1998 Eqpt -- Kits																				
FY 1999 Eqpt -- Kits																				
FY 2000 Eqpt -- kits																				
FY 2001 Eqpt -- kits																				
FY 2002 Eqpt -- kits																				
FY 2003 Eqpt -- kits																				
TC Equip-Kits																				
Total Installation	5	0.4																	6	0.4
Total Procurement Cost		19.9																		19.9

February 1998

Date

INDIVIDUAL MODIFICATION

MODIFICATION TITLE: AN/PRD-13 (V) 2 Procurement 1-97-07-0001

MODELS OF SYSTEMS AFFECTED: AN/PRD-12 Interim Fix

DESCRIPTION / JUSTIFICATION:

The AN/PRD-12 is a man-transportable radio direction finding (DF) system fielded to Army units that performs intercept and line of bearing measurements and provides fix calculations when operating in the netted mode. The Army units rarely use the netting capability of the AN/PRD-12 and it is operationally difficult to establish and bare little influence on mission success. A requirement exists for an organic system to provide threat warning and situational awareness information directly to the supported unit. The system must be modular, very light weight, with minimal power requirements and configurable to support man-pack operations.

**JUSTIFICATION:** The AN/PRD-13(V)2 procurement is an interim fix for the AN/PRD-12. Headquarters Department of the Army has directed the AN/PRD-13 be fielded by Special Operations Command (SOCOM) to US Army Light Divisions. The sustainment will be provided by Contractor Logistics Support with the primary vendor. All fielding and training will be accomplished by SOCOM.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

Contract Award Date  
First Production Hardware Delivered  
Materiel Fielding Agreement/MWO Fielding Plan  
First Kit Applied  
Last Kit Applied

PLANNED: Oct 98  
Oct 99  
Jul 99  
Oct 99  
Oct 00

ACCOMPLISHED:

Installation Schedule:

Pr Yr	FY 1997			FY 1998			FY 1999			FY 2000			FY 2001		
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3
Inputs															
Outputs															

FY 2002			FY 2003			FY 2004			FY 2005			To
1	2	3	4	1	2	3	4	1	2	3	4	Complete
Inputs												
Outputs												
Totals												150
												150

METHOD OF IMPLEMENTATION:

Contract Dates: FY 1997  
FY 1998  
FY 1999

ADMINISTRATIVE LEADTIME: 12 Months  
FY 1998  
FY 1999

PRODUCTION LEADTIME: 12 Months  
FY 1999  
FY 1999  
FY 1999

Delivery Date:



INDIVIDUAL MODIFICATION																																																																																																								
MODIFICATION TITLE: GBCS Upgrades 1-97-07-0002										Date February 1998																																																																																														
MODELS OF SYSTEMS AFFECTED: GBCS-L LP(U) and FSED GBCS-H																																																																																																								
DESCRIPTION / JUSTIFICATION:																																																																																																								
<p>The GBCS Upgrades modification is to upgrade the six Raytheon E-Systems GBCS-L to the production configuration and to add ECM material change improvements to the three FSED GBCS-H systems.</p>																																																																																																								
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:																																																																																																								
<table border="0" style="width: 100%;"> <tr> <td style="width: 40%;"></td> <td style="width: 10%; text-align: center;">Planned</td> <td style="width: 10%; text-align: center;">Accomplished</td> <td colspan="12"></td> </tr> <tr> <td>Inprocess Review/Production Decision:</td> <td></td> <td></td> <td colspan="12" style="text-align: center;">Jun 99</td> </tr> <tr> <td>Contract Award</td> <td></td> <td></td> <td colspan="12" style="text-align: center;">Nov 99</td> </tr> <tr> <td>First Kit Applied</td> <td></td> <td></td> <td colspan="12" style="text-align: center;">Nov 02</td> </tr> <tr> <td>Last Kit Applied</td> <td></td> <td></td> <td colspan="12" style="text-align: center;">Mar 05</td> </tr> </table>																Planned	Accomplished													Inprocess Review/Production Decision:			Jun 99												Contract Award			Nov 99												First Kit Applied			Nov 02												Last Kit Applied			Mar 05																										
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Pr Yr	FY 1997				FY 1998				FY 1999				FY 2000				FY 2001																																																																																							
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FY 2002				FY 2003				FY 2004				FY 2005				Totals																																																																																								
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete																																																																																								
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METHOD OF IMPLEMENTATION:	ADMINISTRATIVE LEADTIME:	Months	PRODUCTION LEADTIME:	Months	FY 1999	FY 1999																																																																																																		
Contract Dates:	FY 1997		FY 1998																																																																																																					
Delivery Date:	FY 1997		FY 1998																																																																																																					

INDIVIDUAL MODIFICATION														Date		February 1998 /			
MODIFICATION TITLE (Cont):																			
GBCS Upgrades 1-97-07-0002																			
FINANCIAL PLAN: (\$ in Millions)																			
FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003		TC		TOTAL	
Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																			
PROCUREMENT																			
Installation Kits GBCS-H																			
Installation Kits GBCS-L																			
Installation Kits, Nonrecurring Equipment																			
Equipment, Nonrecurring Engineering Change Orders																			
Data																			
Training Equipment																			
Support Equipment																			
Other																			
Interim Contractor Support																			
Installation of Hardware																			
FY 1996 & Prior Eqpt -- Kits																			
FY 1997 Eqpt -- Kits																			
FY 1998 Eqpt -- Kits																			
FY 1999 Eqpt -- Kits																			
FY 2000 Eqpt -- kits																			
FY 2001 Eqpt -- kits																			
FY 2002 Eqpt -- kits																			
FY 2003 Eqpt -- kits																			
TC Equip-Kits																			
Total Installment																			
Total Procurement Cost																			

Exhibit P-40, Budget Item Justification Sheet										Date:	
Appropriation / Budget Activity/Serial No:										February 1998	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										P-1 Item Nomenclature:	
Program Elements for Code B Items:										CI HUMINT AUTOMATED TOOL SET (CHATS) (TIARA) (BKS275)	
Code:										Other Related Program Elements:	
A											
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty											
Gross Cost					3.7	3.2	0.4	1.5	5.2	4.5	18.5
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc (P-1)					3.7	3.2	0.4	1.5	5.2	4.5	18.5
Initial Spares											
Total Proc Cost					3.7	3.2	0.4	1.5	5.2	4.5	18.5
Flyaway U/C											
Wpn Sys Proc U/C											

**DESCRIPTION:** The All Source Analysis System (ASAS) Counter Intelligence/Human Intelligence (CI/HUMINT) subsystem is the CI/HUMINT component of the Intelligence and Electronic Warfare (IEW) sub-element of the Army Battle Command System (ABCS). It is a counter intelligence and human intelligence automation system that meets Army tactical CI/HUMINT information collection, investigation, interrogation, operation, document exploitation, and force protection automation requirements. The architecture is built from three sub-elements. The first tier tactical component is the CI/HUMINT Automated Tool Set (CHATS). CHATS operates at the Counter Intelligence Team/Interrogation Prisoner of War (IPW) Team level. The other two major components to the C1/HUMINT Management System architecture are the Counter Intelligence Operations/Interrogation Facility Workstation (OPS/IF WS) for DS/GS MI unit command and control which provides functional interfaces to the All Source Analysis System, and the CI Single-Source Processors (CI SSP) which will operate within the ASAS Analysis and Control Element (ACE). The standard workstation hardware configuration for the CI SSP and the OPS/IF WS will consist of baseline Common Hardware and Software (CHS) components.

**JUSTIFICATION:** FY99 funding supports the fielding of the remaining CHATS systems to the tactical force, Interim Contractor Support, and Program Management Administrative Support. Procurement prior to FY99 was through supplemental appropriation. The CHATS system provides agents the capability to manage assets and analyze information collected through investigations, interrogations, collection, and document exploitation. With CHATS, CI units may electronically store collected information in a local database, associate information with digital photography, and transmit/receive information over existing military and civilian communications. The CHATS provides these functions primarily with COTS software operating in a laptop computer within a hardened transport case.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: CI HUMINT AUTOMATED TOOL SET (CHATS) (TIARA) (BK5275)		Weapon System Type:		Date: February 1998		
OPA Cost Elements	ID CD	FY 96		FY 97		FY 98		FY 99		
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
CHATS (AN/PYQ-3(V))										
Project Management Administration										
Interim Contractor Support										
Fielding										
TOTAL										



Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998						
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature:												
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type		Location of PCO		Award Date		CI HUMINT AUTOMATED TOOL SET (CHATS) (TIARA) (BK5275)						
										Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date	
FY99 CHATS AN/PYQ-3 (V)		TBD		TBD		CECOM		Dec-98		Mar-99	90	23	N/A	N/A	Jan-98	
REMARKS: CHATS consists of NDI and COTS equipment purchased through CECOM.																

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:				P-1 Item Nomenclature:								ITEMS LESS THAN \$2.0M (TIARA) (BK5278)	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment													
Program Elements for Code B Items:				Other Related Program Elements:									
				Code:									
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	38.2	0.0	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.7	0.0	42.7	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	38.2	0.0	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.7	0.0	42.7	
Initial Spares													
Total Proc Cost	38.2	0.0	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.7	0.0	42.7	
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:**

This budget line supports automation requirements for the Army Intelligence and Electronic Warfare Master Plan (AIMP). The AIMP uses capabilities from the Force Integration Masterplanner (FIM) to develop decision support aids that facilitate development and display of intelligence force structure, architectures and systems. The FIM is a computer-based system of systems using commercial-off-the-shelf (COTS) software to support PBES decision making in the Intelligence and Electronic Warfare (IEW) community. The AIMP is a publication mechanism that presents the IEW future vision to Army consumers over Intelink and Intelink-S.

**JUSTIFICATION:**

FY99 funds will be used to continue replacing proprietary and obsolete hardware with standard COTS UNIX platforms and software. This provides the potential for interoperability with other UNIX applications, reduces hardware maintenance costs, and provides significantly better processing capability. FY99 funds will also be used to acquire high speed product servers for Intelink & Intelink-S networks making the FIM products available to any Army consumer, world-wide. Hardware and software procured will support Headquarters, Department of the Army, and FIM field support sites at Fort Belvoir, Fort Huachuca, and Fort Monmouth.

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												SHORTSTOP (VA8000)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code: B													
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	11.0	0.0	0.0	5.0	5.8	0.0	0.0	0.0	0.0	0.0	0.0	21.8	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	11.0	0.0	0.0	5.0	5.8	0.0	0.0	0.0	0.0	0.0	0.0	21.8	
Initial Spares													
Total Proc Cost	11.0	0.0	0.0	5.0	5.8	0.0	0.0	0.0	0.0	0.0	0.0	21.8	
Flyaway U/C				0.3									
Wpn Sys Proc U/C				.3									

DESCRIPTION: The SHORTSTOP Electronic Protection System (SEPS) is a fully integrated Radio Frequency Countermeasure system which is designed to provide protection for personnel and high value assets against proximity fuzes. There are three configurations of the SHORTSTOP Electronic Protection System: a manpack system, a stand alone system, and a vehicle mounted system. SHORTSTOP will maximize tactical utility and provide protection against indirect fire. SHORTSTOP will be used by Infantry, Engineering, Armor, Field Artillery and Intelligence units to enhance survivability.

JUSTIFICATION: FY97/98 funding is a result of a Congressional plus-up to support an Urgent Requirement to provide SHORTSTOP vehicle mounted systems to Korea.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: SHORTSTOP (VA8000)				Weapon System Type:		Date: February 1998	
OPA		FY 96		FY 97		FY 98		FY 99					
Cost Elements		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
Hardware (SEPS)					3220	14	230	5070	30	169			
Non-Recurring					815								
Antenna					160	20	8	192	24	8			
Engineering Support Government Contractor					168 80			125					
Data					40			40					
System Test/Evaluation					255			150					
Fielding/Contractor Logistics Support					147			152					
Program Mgmt (Admin)					115			95					
TOTAL					5000			5824					

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998		
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature:							
WBS Cost Elements: Fiscal Years Hardware			Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Reven Avail	RFP Issue Date
FY 97			Condor/Whittaker Electronic Systems, Simi Valley, CA	SS/FFP	CECOM	Dec-97	Mar-99	14	230	No		
FY98			Condor/Whittaker Electronic Systems, Simi Valley CA	Option	CECOM	Mar-98	Jun-99	30	169	No		
REMARKS:												





Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												COUNTERINTELLIGENCE/SECURITY COUNTERMEAS (BL5283)
Code:												Other Related Program Elements:
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	1.2	2.0	2.5	1.6	2.3	1.7	1.7	2.4	2.4	2.4	0.0	20.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	1.2	2.0	2.5	1.6	2.3	1.7	1.7	2.4	2.4	2.4	0.0	20.3
Initial Spares												
Total Proc Cost	1.2	2.0	2.5	1.6	2.3	1.7	1.7	2.4	2.4	2.4	0.0	20.3
Flyaway U/C												
Wpn Sys Proc U/C												

CLASSIFIED PROGRAM. INFORMATION WILL BE PROVIDED UPON REQUEST.



Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												SENTINEL (FAAD OBS) (WKS053)
Code:												Other Related Program Elements:
Proc Qty	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
		10	24	28	27	23	17	7	8			144
Gross Cost	7.9	63.7	61.9	68.9	59.4	58.2	49.6	36.3	34.0	32.7	189.9	662.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	7.9	63.7	61.9	68.9	59.4	58.2	49.6	36.3	34.0	32.7	189.9	662.5
Initial Spares			2.3	3.6	5.3	7.2						18.4
Total Proc Cost	7.9	63.7	64.2	72.5	64.7	65.4	49.6	36.3	34.0	32.7	189.9	680.9
Flyaway U/C		4.0	2.2	2.2	2.0	2.2	2.6	11.2	15.7			
Wpn Sys Proc U/C		6.4	2.6	2.5	2.2	2.4	2.8	12.1	17.0			

**DESCRIPTION:** Sentinel AN/MPQ-64 consists of a radar-based sensor with its prime mover/power, identification friend or foe (IFF), and FAAD Command, Control, and Intelligence (C2I) interfaces. The sensor is an advanced three dimensional battlefield X-Band air defense phased-array radar with an instrumented range of 40 km. The Sentinel is capable of operating day or night, in adverse weather conditions, in the battlefield environments of dust, smoke, aerosols, and enemy countermeasures. It provides 360 degree azimuth coverage for acquisition tracking. The Sentinel contributes to the digital battlefield by automatically detecting, classifying, identifying, and reporting targets (cruise missiles, and unmanned aerial vehicle, rotary wing and fixed wing aircraft). Targets can be hovering to fast moving, as well as, from nap of the earth to the maximum engagement altitude of Short Range Air Defense (SHORAD) weapons. Very accurate and quick reacting, Sentinel acquires targets sufficiently forward of the Forward Line of Troops to improve SHORAD weapons reaction time and allow engagement at optimum ranges. The Sentinel integrated IFF reduces the potential for fratricide of Army Aviation and Air Force aircraft. Highly mobile and reliable, the Sentinel Anti-Radiation Missile and Electronic Countermeasures resistant performance supports Army Corps and Divisional Air Defense operations across the full spectrum of conflict.

**JUSTIFICATION:** FY 99 funds provide production hardware for four National Guard units (3-200th ADA, 3-265th ADA, 4-200th ADA, and 2-265th ADA).

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: SENTINEL (FAAD GBS) (WK5053)				Weapon System Type:		Date: February 1998	
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99					
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
A		HARDWARE												
		SENTINEL SYSTEMS	48582	24	2024	52342	28	1869	46564	27	1725	49528	24	2064
		TRAINING	1563			1477						758		
		ENGINEERING CHANGE ORDERS	596			3120			2862			1217		
		P3I												
		SYSTEM TEST & EVALUATION	490			2550			339					
		INTERIM CONTRACTOR SUPPORT	3938			2274			2771			935		
		ENGINEERING SUPPORT												
		LABOR	2582			2064			1742			1613		
		SIMULATIONS	685			950			560			496		
		FIELDING	75			680			1147			833		
		SOFTWARE MAINTENANCE	1459			1149			900			921		
		PROGRAM MGT/ADMIN												
		LABOR IN-HOUSE	886			605			786			755		
		LABOR CONTRACTS	1026			1666			1776			1191		
	Subtotal - PROGRAM MGT/ADMIN	1912			2271			2562			1946			
	TOTAL	61882			68877			59447			58247			
Note: The quantities in the database as reflected on the P40 are incorrect and will be updated to reflect the quantities shown on the the P5.														

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature: SENTINEL (FAAD GBS) (WK5053)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revis Avail	RFP Issue Date
<b>HARDWARE</b>										
<b>SENTINEL SYSTEMS</b>										
FY 96	Hughes Aircraft Co., Forest, MS	Option	AMCOM	Feb-96	May-97	24	2024	Yes	No	
FY 97	Hughes Aircraft Co., Forest, MS	Option	AMCOM	Feb-97	May-98	28*	1869	Yes	No	
FY 98	Hughes Aircraft Co., Forest, MS	Option	AMCOM	Feb-98	May-99	27	1725	Yes	No	
FY 99	Hughes Aircraft Co., Forest, MS	Option	AMCOM	Feb-99	May-00	24	2064	Yes	No	
<b>REMARKS:</b> *The option awarded in FY 97 procures thirty (30) sensors. The first two sensors will be delivered in May 98 for an FMS Case with the Government of Turkey.										







Exhibit P-40, Budget Item Justification Sheet												Date: February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		TARGET LOCATION OBSERVATION SYSTEM (TLOS (K38400))										
Program Elements for Code B Items:		Other Related Program Elements:										
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty		128	121		435	238	261	266	285	266	565	2565
Gross Cost	0.0	12.0	6.6	13.9	20.8	11.8	12.0	11.8	12.3	11.3	24.9	137.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	12.0	6.6	13.9	20.8	11.8	12.0	11.8	12.3	11.3	24.9	137.4
Initial Spares												
Total Proc Cost	0.0	12.0	6.6	13.9	20.8	11.8	12.0	11.8	12.3	11.3	24.9	137.4
Flyaway U/C		0.077	0.042		0.049	0.049	0.046	0.044	0.042	0.041	0.040	0.046
Wpn Sys Proc U/C		0.096	0.055		0.055	0.051	0.048	0.046	0.045	0.044	0.044	0.050

**DESCRIPTION:** The K38400, AN/PLQ-8 Target Location Observation System (TLOS) is an active or passive, day or night sight. It is target acquisition system designed to detect threat Optical and Electro-Optical Systems. The TLOS can be used as a covert illuminator and fire direction pointer. The AN/PLQ-8 TLOS is a part of the roll line KA3500 Night Vision Devices until FY99.

**JUSTIFICATION:** The "Own the Night" initiative, one of the Chief of Staff of the Army's top five priorities, includes the AN/PLQ-8 TLOS. The TLOS is the only hand-held device capable of precisely locating threat optical and electro-optical signatures on the battlefield, and its use will greatly enhance U. S. Forces combat effectiveness. The FY99 funds will procure the restructured technology configuration for fielding to the Special Operations and Light Forces (75th Rangers, 82nd Airborne, 101st Air Assault, 10th Mountain, 2nd and 25th Infantry, and Scout Battalions).

**NOTE:** AN/PLQ-8 TLOS was restructured in March 1996 in accordance with (IAW) SECDEF guidance. Results of restructure are reflected above.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: TARGET LOCATION OBSERVATION SYSTEM (TLOS (K38400))		Weapon System Type:		Date: February 1998					
ID	OPA Cost Elements	FY 96		FY 97		FY 98		FY 99					
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000			
A	AN/PLQ-8 (K38400) TLOS	4025	121	33				19096	435	44	10446	238	44
	Government Engineering Support	629			523			523			342		
	Program Management Support	114			114			114			114		
	Fielding	256			180			349			391		
	Contractor Engineering Support	274			221			221			221		
	Engineering Change Orders	184			148			175			148		
	Data/Tech Pubs	70						99			75		
	Interim Contractor Support	919											
	Testing	180			1123			178			50		
	TOTAL	6651			2309			20755			11787		
*FY97 funding was reduced by \$11.552M based on reprogramming action in FY97. Within the parent SSN KA3500, \$115K was moved to the baby SSN K30800 and \$11.437M \$11.347M was moved to SSN K36400.													

\*FY97 funding was reduced by \$11.552M based on reprogramming action in FY97. Within the parent SSN KA3500, \$115K was moved to the baby SSN K30800 and \$11.437M \$11.347M was moved to SSN K36400.



Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998		
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature:							
Contractor and Location			Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date	
AN/PLQ-8 TLOS FY96			Lockheed/Martin, Manchester, NH	Option	CECOM	Mar-96	Sep-98	121	33	Yes	No	
AN/PLQ-8 ETLOS FY98			TBS	C/FP	CECOM	Mar-98	Apr-99	435	44			
AN/PLQ-8 ETLOS FY99			TBS	Option	CECOM	Mar-99	Apr-00	238	44			
<b>REMARKS:</b> AN/PLQ-8 TLOS Program was restructured in March 1996 IAW SECDEF Guidance. Results of restructure are reflected above. ETLOS represents the restructured program and is referred to as the Enhanced TLOS. The FY 1997 procurement funds were internally reprogrammed with the concurrence of the user and HQDA to K36400 and K30800.												







# Exhibit P-40, Budget Item Justification Sheet

Appropriation / Budget Activity/Serial No: Date: February 1998

OTHER PROCUREMENT / 2 / Communications and Electronics Equipment

Program Elements for Code B Items:

	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	1187.5	41.2	51.7	100.6	42.2	29.6	39.8	36.9	45.1	44.4	622.8	2241.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	1187.5	41.2	51.7	100.6	42.2	29.6	39.8	36.9	45.1	44.4	622.8	2241.8
Initial Spares		2.3	2.9	2.7	8.2	5.0	3.1	3.1	3.0	3.0	31.5	64.8
Total Proc Cost	1187.5	43.5	54.6	103.2	50.4	34.6	42.9	40.0	48.1	47.5	654.3	2306.6
Flyaway U/C												
Wpn Sys Proc U/C												

**DESCRIPTION:** Night Vision Devices (KA3500) is a summary budget line. There are five subsidiary lines which are: K36400 Night Vision, AN/PVS-7/14 AID; B53800 AN/PVS-6 Mini Eyesafe Laser Infrared Observation System (MELIOS); K41500 AN/PVS-10 Sniper Night Sight (SNS); K35000 AN/PAQ-4 Infrared Aiming Light (IAL); K30400, HTI Training Devices. (1): The AN/PVS-7 is a lightweight, Night Vision Goggle consisting of a monocular Objective Lens Assembly, one state-of-the-art Third Generation Image Intensifier tube, and two Eyepiece Lens Assemblies integrated into a housing which is affixed to the user's head or helmet. The AN/PVS-14 Monocular Night Vision Device is a variant of the AN/PVS-7 in that it has only a single lens assembly. The AN/PVS-7/14 is used by individual soldiers at night to perform Combat, Combat Support, and Combat Service Support operations. (2) The AN/PVS-6 MELIOS is a hand-held, eyesafe laser rangefinder with an integrated compass and vertical angle measurement capability. (3) The AN/PVS-10 SNS is an NDI day/night sight specifically procured for M24 Sniper Weapon to replace the Leopold day sight. (4) The AN/PAQ-4 IAL is a lightweight, weapon mounted and boresighted aiming light. The aiming light output is visible only when used with a night vision goggle, such as the AN/PVS-7. (5) The K30400 Horizontal Technology Integration Second Generation Forward Looking Infrared (HTI SGF) (FLIR) will incorporate common second generation FLIR technology into critical, high priority combat platforms. It will enable the Army to insert key technology into the highest priority forces, e.g. M1A2 SEP Abrams, M2A3/M3A3 Bradley Fighting Vehicle System and Long Range Advanced Scout Surveillance System (LRAS3). Through FY99, this roll line also includes K22900 AN/PAS-13 Thermal Weapon Sight (TWS), K38400 AN/PLQ-8 Target Location and Observation System (TLOS), K38300 Long Range Advanced Scout Surveillance System (LRAS3), and K30800 AN/PVH-1&2 Lightweight Video Reconnaissance System (LVRS).

**JUSTIFICATION:** The "Own the Night" initiative, one of the Chief of Staff of the Army's top five priorities, includes the AN/PVS-7/14. The FY99 funds will procure AN/PVS-7/14 systems with the latest technology for fielding to Special Operations and Light Forces (75th Rangers, 82nd Airborne, 101st Air Assault, 10th Mountain, 2nd and 25th Infantry, and Scout Battalions).

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: NIGHT VISION DEVICES (KA3500)				Weapon System Type:		Date: February 1998	
OPA		FY 96		FY 97		FY 98		FY 99					
Cost Elements		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
NIGHT VISION, AN/PVS-6 MELIOS					10000	464	22						
NIGHT VISION, AN/PVS-7 AID		47100	14538	3	83279	30179	3	36902	9842	4	29636	7914	4
SNIPER NIGHT SIGHT					6500	1064	6						
INFRARED AIMING LIGHT, AN/PAQ-4					11050	20847	1	5339	5000	1			
HORIZONTAL INTEGRATION - 2D GEN FLIR		4568											
*FY97 was adjusted by an increase of \$11.437M that was moved within this parent SSN KA3500 (ie. from baby SSN K38400 to baby SSN K36400). In addition, HQDA reprogrammed \$1.178M from this SSN to a higher Army priority. The database will be corrected to reflect these FY97 adjustments.													
TOTAL		51668			110829			42241			29636		

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:											
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		NIGHT VISION, AN/PVS-6 MELIOS (B53800)											
Program Elements for Code B Items:		Other Related Program Elements:											
		Code:											
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty	8005			464								8469	
Gross Cost	76.5	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	86.5	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	76.5	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	86.5	
Initial Spares													
Total Proc Cost	76.5	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	86.5	
Flyaway U/C	0.010			0.018								0.010	
Wpn Sys Proc U/C	0.010			0.022								0.011	

**DESCRIPTION:** B53800 AN/PVS-6 Mini Eyesafe Laser Infrared Observation System (MELIOS). The AN/PVS-6 MELIOS is a hand-held, eyesafe laser rangefinder with an integrated compass and vertical angle measurement capability.

**JUSTIFICATION:** No FY99 Funds.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: NIGHT VISION, AN/PVS-6 MELIOS (B53800)		Weapon System Type:		Date: February 1998	
ID	CD	OPA Cost Elements	FY 96		FY 97		FY 98		FY 99	
			TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each
		AN/PVS-6 MELIOS				8447	464	18		
		Ancillary Equipment for fielded MELIOS				1553				
		TOTAL				10000				



Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998		
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT 72 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature:							
WBS Cost Elements: Fiscal Years AN/PVS-6 MELIOS FY 97			Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
			Litton Laser, Apopka, FL	Option	CECOM	Dec-96	Dec-97	464	18	Yes		
REMARKS:												





Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												NIGHT VISION, AN/PVS-7 AID (K36400)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty	98083		11338	30179	6740	8086	9274	8415	10583	10506	79627	272831	
Gross Cost	614.0	38.6	47.1	71.8	36.9	29.6	33.4	29.5	37.6	36.8	443.1	1418.6	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	614.0	38.6	47.1	71.8	36.9	29.6	33.4	29.5	37.6	36.8	443.1	1418.6	
Initial Spares													
Total Proc Cost	614.0	38.6	47.1	71.8	36.9	29.6	33.4	29.5	37.6	36.8	443.1	1418.6	
Flyaway U/C	0.006	0.004	0.003	0.003	0.004	0.003	0.003	0.003	0.003	0.003	0.005	0.004	
Wpn Sys Proc U/C	0.007	0.004	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.006	0.005	

**DESCRIPTION:** K36400 Night Vision, AN/PVS-7 AID; The AN/PVS-7 is a lightweight, Night Vision Goggle consisting of a monocular Objective Lens Assembly, one state-of-the-art Third Generation Image Intensifier tube, and two Eyepiece Lens Assemblies integrated into a housing which is affixed to the user's head or helmet. The AN/PVS-14 Monocular Night Vision Device (MNVD) is a variant of the AN/PVS-7 in that it has only a single Eyepiece Lens Assembly. The AN/PVS-7/14 is used by individual soldiers at night to perform Combat, Combat Support, and Combat Service Support operations. The 25mm Third Generation Image Intensifier tube is a direct replacement for the second generation Image Intensifier tube.

**JUSTIFICATION:** The "Own the Night" initiative, one of the Chief of Staff of the Army's top five priorities, includes the AN/PVS-7/14. The FY99 funds will procure AN/PVS-7/14 systems with the latest technology for fielding to Special Operations and Light Forces (75th Rangers, 82nd Airborne, 101st Air Assault, 10th Mountain, 2nd and 25th Infantry, and Scout Battalions).

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: NIGHT VISION, AN/PVS-7 AID (K36400)		Weapon System Type:		Date: February 1998	
ID	CD	FY 96		FY 97		FY 98		FY 99	
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each
A		35000	11338	3	78515	30179	3	26829	7914
25MM GEN III Image Tubes		8000	3374	2				6000	2000
Government Engineering Support		955			1022			907	
Project Management Admin		235			345			485	
Fielding		1817			1728			1763	
Contractor Engineering Support		611			1156			858	
ECO		204			204			144	
Data/Tech Pubs		154			199			79	
Testing		124			110			60	
<b>TOTAL</b>		<b>47100</b>			<b>83279</b>			<b>36902</b>	
AN/PVS-7 Night Vision Goggle*									
25MM GEN III Image Tubes									
Government Engineering Support									
Project Management Admin									
Fielding									
Contractor Engineering Support									
ECO									
Data/Tech Pubs									
Testing									
<b>TOTAL</b>									

\*FY96 includes Title XI funds from USANG of \$4.877M which were properly programmed under this parent SSN (KA3500) KA3500 but incorrectly reflected in RDAISA under the baby SSN K41500.

\*FY97 includes \$11.437M that was moved in FY97 within this parent SSN KA3500 from baby SSN K38400 to K36400. The database will be updated to reflect that action.

\*FY98 congressional plus-up funds are included in the database but database quantity needs to be updated accordingly as reflected on this P-5.

Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					Weapon System Type:			P-1 Line Item Nomenclature: NIGHT VISION, AN/PVS-7 AID (K36400)				
WBS Cost Elements:		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Fiscal Years												
AN/PVS-7 Night Vision Goggle*		ITT, Roanoke, VA		C/FPM-2(1)	CECOM	Feb-96	Mar-97	1138		3	Yes	
FY 96		ITT, Roanoke, VA		C/FPM-5(5)	CECOM	Mar-96	Aug-98	Var		3		
FY96*		Lifton, Tempe, AZ		C/FPM-5(5)	CECOM	Mar-96	Jun-98	Var		3		
FY 97		ITT, Roanoke, VA		C/FPM-2(2)	CECOM	Apr-97	Mar-98	30179		3		
FY 98		TBS		C/FPM-2(1)	CECOM	Mar-98	Apr-99	7842		3		
FY 99		TBS		C/FPM-2(2)	CECOM	Feb-99	Jan-00	7914		3		
25MM GEN III Image Tubes		ITT, Roanoke, VA		Option	CECOM	Mar-96	Mar-97	3374		2	Yes	
FY 96		TBS		C/FPM-2(1)	CECOM	Mar-98	Apr-99	2000		3		
FY98												
REMARKS: * Along with quantities for various customers, these FY96 procurements include Title XI funds programmed in this SSN for a quantity of 1185 as requested/funded by the USANG.												



[illegible]





Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												SNIPER NIGHT SIGHT (K41500)
Code:												Other Related Program Elements:
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	650	403		1064								2117
Gross Cost	4.8	2.5	4.9	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	4.8	2.5	4.9	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.7
Initial Spares												
Total Proc Cost	4.8	2.5	4.9	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.7
Flyaway U/C	0.007	0.006		0.006								0.006
Wpn Sys Proc U/C	0.007	0.007		0.006								0.007

**DESCRIPTION:** K41500 AN/PVS-10 Sniper Night Sight (SNS) The AN/PVS-10 SNS is an NDI day/night sight specifically procured for M24 Sniper Weapon to replace the Leopold day sight.

**JUSTIFICATION:** No planned program in FY99.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: SNIPER NIGHT SIGHT (K41500)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
AN/PVS-10 SNS Hardware	A				6197	1064	6						
FIELDING					303								
TOTAL					6500								
* FY96 Title XI USANG funding of \$4.877M was reprogrammed in FY96 under this parent SSN KA3500 but is incorrectly reflected in the database under its baby SSN K41500 vice K35400.													

\* FY96 Title XI USANG funding of \$4.877M was reprogrammed in FY96 under this parent SSN KA3500 but is incorrectly reflected in the database under its baby SSN K41500 vice K35400.

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature: SNIPER NIGHT SIGHT (K41500)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
AN/PVS-10 SNS Hardware FY 97	Litton, Garland, TX	Option	CECOM	Apr-97	Mar-98	1064	6	Yes		
REMARKS:										





Exhibit P-40, Budget Item Justification Sheet											Date:	February 1998
Appropriation / Budget Activity/Serial No:				P-1 Item Nomenclature:								
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				INFRARED AIMING LIGHT, AN/PAQ-4 (K35000)								
Program Elements for Code B Items:				Other Related Program Elements:								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	18080			20847	5000							43927
Gross Cost	9.5	0.0	0.0	12.2	5.3	0.0	0.0	0.0	0.0	0.0	0.0	27.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	9.5	0.0	0.0	12.2	5.3	0.0	0.0	0.0	0.0	0.0	0.0	27.1
Initial Spares												
Total Proc Cost	9.5	0.0	0.0	12.2	5.3	0.0	0.0	0.0	0.0	0.0	0.0	27.1
Flyaway U/C	0.001			0.001	0.001							0.001
Wpn Sys Proc U/C	0.001			0.001	0.001							0.001

**DESCRIPTION:** K35000 AN/PAQ-4 Infrared Aiming Light (IAL); The AN/PAQ-4 IAL is a lightweight, weapon mounted and boresighted aiming light. The aiming light output is visible only when used with a night vision goggle, such as the AN/PVS-7. This SSN also includes the AN/PEQ-2A Infrared Target Pointer/Infrared Aiming Light, a device originally developed for the U. S. Navy. The AN/PEQ-2A program is managed by the Army.

**JUSTIFICATION:** No planned program in FY99.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: INFRARED AIMING LIGHT, AN/PAQ-4 (K35000)			Weapon System Type:			Date: February 1998		
ID	CD	OPA Cost Elements	FY 96			FY 97			FY 98			FY 99		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
	A	AN/PAQ-4 Infrared Aiming Light (IAL)				6050	19210							
	A	AN/PEQ-2A Infrared Target Pointer/IAL				5000	5100	1	5339	5000				
		<b>TOTAL</b>				<b>11050</b>			<b>5339</b>					
NOTE: FY97 UNIT COST FOR AN/PAQ-4 IS \$263														
Note: In FY97, HQDA reprogrammed \$1.178M from this program. Database will be corrected to reflect that action.														



Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: INFRARED AIMING LIGHT, AN/PAQ-4 (K35000)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
AN/PAQ-4 Infrared Aiming Light (IAL) FY 97	Insight Technology, Nashua, NH	C/Option	CECOM	May-97	Feb-98	19210		Yes		
AN/PEQ-2A Infrared Target Pointer/IAL FY 97 FY 98	Insight Technology, Nashua, NH TBS	C/Option C/DIQ	CECOM CECOM	Sep-97 May-98	Feb-98 Jul-98	5100 5000	1 1	Yes		
<b>REMARKS:</b> The Unit Price for the AN/PAQ-4 is approximately \$263. The procurement of the AN/PEQ-2A is consistent with Congressional direction.										





Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:				P-1 Item Nomenclature:								LTWT VIDEO RECON SYSTEM (LWVRS) (K30800)	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Other Related Program Elements:									
Program Elements for Code B Items:				Code:									
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty		48	82	94	90	110	145	44	48	48	878	1587	
Gross Cost	0.0	2.2	2.4	2.6	4.3	3.4	4.0	1.2	1.4	1.4	26.3	49.2	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	2.2	2.4	2.6	4.3	3.4	4.0	1.2	1.4	1.4	26.3	49.2	
Initial Spares													
Total Proc Cost	0.0	2.2	2.4	2.6	4.3	3.4	4.0	1.2	1.4	1.4	26.3	49.2	
Flyaway U/C		0.038	0.026	0.026	0.031	0.026	0.024	0.024	0.024	0.024	0.025	0.026	
Wpn Sys Proc U/C		0.046	0.029	0.029	0.048	0.031	0.028	0.029	0.030	0.031	0.030	0.030	

**DESCRIPTION:** K30800, AN/PVH-1&2 Lightweight Video Reconnaissance System (LVRS) is a system designed to capture and transmit still video images through military radios. The images are captured with a portable AN/PVH-1 LVRS Out Station which transmits the captured image to the AN/PVH-2 LVRS Base Station for analysis and dissemination. This system is a part of roll line KA3500 Night Vision Devices until FY99.

**JUSTIFICATION:** The "Own the Night" initiative, one of the Chief of Staff of the Army's top five priorities, includes the AN/PVH-1&2 LVRS. The LVRS provides the first day/night image transmission capability between ground scouts and their higher headquarters, facilitating rapid target identification and analysis of key structures/terrain and other data critical to mission planning/execution. The FY99 funds will procure this LVRS capability for fielding to Special Operations and Light Forces (75th Rangers, 82nd Airborne, 101st Air Assault, 10th Mountain, 2nd and 25th Infantry, and Scout Battalions).

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: LTWT VIDEO RECON SYSTEM (LWVRS) (K30800)		Weapon System Type:		Date: February 1998	
ID	CD	FY 96		FY 97		FY 98		FY 99	
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each
AN/PVH-1&2 LVRS	A	1984	82	24	2392	94	25	2872	90
Government Engineering Support		160			90			213	
Project Management Support		210			222			25	
Fielding/CLS								296	
Upgrade Out Stations									
<b>Total</b>		<b>2354</b>			<b>2704</b>			<b>3364</b>	
NOTE: The unit cost represents a composite composite rate that is determined by the mix of base stations and out stations in the total quantity.  Note: FY97 amount of \$2.704M includes an increase of \$115K that was reprogrammed from by the PEO in FY97 from SSN K38400. The database will be updated to reflect that action.									

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature: LTWT VIDEO RECON SYSTEM (LWVRS) (K30800)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
AN/PVH-1&2 LVRS										
FY 96	Phototelesis, San Antonio, TX	Option	CECOM	Jul-96	Feb-97	82	24	Yes	No	
FY 97	Phototelesis, San Antonio, TX	Option	CECOM	Sep-97	Feb-98	94	25			
FY 98	Phototelesis, San Antonio, TX	Option	CECOM	Mar-98	Dec-98	90	32			
FY 99	Phototelesis, San Antonio, TX	Option	CECOM	Dec-98	Aug-99	110	26			
REMARKS:										









Exhibit P-40, Budget Item Justification Sheet											
Appropriation / Budget Activity/Serial No:										Date:	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										February 1998	
P-1 Item Nomenclature:										NIGHT VISION, THERMAL WPN SIGHT (K22900)	
Program Elements for Code B Items:										Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	Total Prog
Proc Qty		483	717	1650	1413	1522	1727	1758	1552	1640	34062
Gross Cost	0.0	23.0	23.1	45.1	41.1	36.1	39.6	40.4	36.2	38.1	692.6
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc (P-1)	0.0	23.0	23.1	45.1	41.1	36.1	39.6	40.4	36.2	38.1	692.6
Initial Spares											
Total Proc Cost	0.0	23.0	23.1	45.1	41.1	36.1	39.6	40.4	36.2	38.1	692.6
Flyaway U/C		0.047	0.030	0.025	0.023	0.022	0.022	0.019	0.019	0.019	0.019
Wpn Sys Proc U/C		0.047	0.032	0.026	0.024	0.024	0.024	0.021	0.021	0.021	0.020

**DESCRIPTION:** K22900, AN/PAS-13 Thermal Weapon Sight (TWS) is a part of the roll line KA3500 Night Vision Devices until FY99. The AN/PAS-13 is a multi-purpose Thermal Weapon Sight designed to be mounted on all Infantry Individual and Crew Served Weapons. It is a GEN II Thermal Device which significantly improves dismounted Infantry operation capability by increasing range and enabling both day and night vision through smoke, fog, battlefield obscurants and in extremely low light levels such as under triple canopy jungle.

**JUSTIFICATION:** The "Own the Night" initiative, one of the Chief of Staff of the Army's top five priorities, includes the AN/PAS-13 TWS. The TWS is also a key component of Land Warrior, a designated digitized division/corps asset. The FY99 funds will procure TWS systems with the latest technology for fielding to the Special Operations and Light Forces (75th Rangers, 82nd Airborne, 101st Air Assault, 10th Mountain, 2nd and 25th Infantry, and Scout Battalions).

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: NIGHT VISION, THERMAL WPN SIGHT (K22900)			Weapon System Type:		Date: February 1998	
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99			
ID	CD		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000
A		AN/PAS-13 Thermal Weapon Sight (TWS)	18107	717	25	42750	1650	26	36523	1660	22	31761
		Borelights							1000	2500		
		Government Engineering Support	479			240			834			834
		Project Management Admin	135			123			135			135
		Fielding				396			1237			1847
		Contractor Engineering Support	222			147			387			387
		ECO	3739			1004			129			130
		Data/Tech Pubs	224			237			291			254
		Interim Contractor Support				240			396			568
		Testing	147						147			194
		TOTAL	23053			45137			41079			36110

NOTE: quantities are correct as reflected.  
Database will be changed to reflect updated  
quantities.

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature: NIGHT VISION, THERMAL WPN SIGHT (K22900)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
AN/PAS-13 Thermal Weapon Sight (TWS)	Hughes, El Segundo, CA	C/Option	CECOM	May-96	Aug-97	717	25	Yes		
FY 96	Hughes, El Segundo, CA	SS/FP	CECOM	Apr-97	Aug-98	1650	26			
FY 97	TBS	C/FPM-3(1)	CECOM	Apr-98	Aug-99	1660	22			
FY 98	TBS	C/FPM-3(2)	CECOM	Mar-99	Jun-00	1512	21			
FY 99										
REMARKS:										







Exhibit P-40, Budget Item Justification Sheet												Date: February 1998
Appropriation / Budget Activity/Serial No:				P-1 Item Nomenclature:								
OTHER PROCUREMENT 12 / Communications and Electronics Equipment				ARTILLERY ACCURACY EQUIP (AD3200)								
Program Elements for Code B Items:				Other Related Program Elements:								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	124.3	9.4	11.7	4.5	4.4	11.0	4.3	5.9	0.0	0.0	0.0	175.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	124.3	9.4	11.7	4.5	4.4	11.0	4.3	5.9	0.0	0.0	0.0	175.5
Initial Spares												
Total Proc Cost	124.3	9.4	11.7	4.5	4.4	11.0	4.3	5.9	0.0	0.0	0.0	175.5
Flyaway U/C												
Wpn Sys Proc U/C												

**DESCRIPTION:** Artillery Accuracy Equipment involves the procurement of meteorological, survey and velocity measuring equipment designed to improve accuracy of Army artillery weapons and increase the probability of first round target hits. This category of equipment included procurement of the Meteorological Measuring System (K27800) and Artillery Muzzle Velocity System (AD3250).

**JUSTIFICATION:** The FY99 funds support fielded units and readiness requirements with conventional and Paladin versions of the Muzzle Velocity System (MVS), and the Meteorological Measuring System (MMS), providing field artillery weather data.





Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												METEOROLOGICAL MEASURING SYS (K27800)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code:													
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty	107		20			7		7				141	
Gross Cost	117.5	6.8	6.9	0.0	0.0	6.6	0.0	5.9	0.0	0.0	0.0	143.7	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	117.5	6.8	6.9	0.0	0.0	6.6	0.0	5.9	0.0	0.0	0.0	143.7	
Initial Spares													
Total Proc Cost	117.5	6.8	6.9	0.0	0.0	6.6	0.0	5.9	0.0	0.0	0.0	143.7	
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:** The Meteorological Measuring System (MMS) provides field artillery weather data to the active Army. It is an upper air meteorological data collection, processing and dissemination system that provides necessary data to field artillery, target acquisition, and air weather service to improve their mission capability. It is mobile, provides high altitude Met Data to USAF Weather Service, radiological fallout data to the chemical sections, meet roll on/roll off HMMWV requirements data to 30KM. The Meteorological Hydrogen Generator (MHG) generates hydrogen and diverts gas to a storage tank for later use; provides up to 6 hours of continuous operation. It is environmentally safe and needs only one operator.

**JUSTIFICATION:** The FY99 procurement supports fielded units and readiness requirements for the Meteorological Measuring System (MMS), providing field artillery weather data to the active Army.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: METEOROLOGICAL MEASURING SYS (K27800)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
1. Hardware MMS GPS Upgrades	A	3525	20	176							4815	9	535
2. Testing		210									88		
3. Engineering Support - Contractor Support - In House Support		275 870									134 418		
4. Fielding		1718									891		
5. Program Management Admin		272									254		
TOTAL		6870									6600		

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:			P-1 Line Item Nomenclature: METEOROLOGICAL MEASURING SYS (K27800)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date	
1. Hardware											
FY 96	ETG, Baltimore, MD	C/OPTION	CECOM	Aug-96	Jul-97	20	176	Yes	No		
FY 99	ETG, Baltimore, MD	C/OPTION	CECOM	Oct-98	Jul-99	9	535	Yes	No		
REMARKS:											







Exhibit P-40, Budget Item Justification Sheet											Date:
Appropriation / Budget Activity/Serial No:											February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment											P-1 Item Nomenclature:
Program Elements for Code B Items:											ARTY MUZZLE VELOCITY SYSTEM (AD3250)
Code:											Other Related Program Elements:
A											
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty											
Gross Cost	6.8	2.6	4.8	4.5	4.4	4.3	0.0	0.0	0.0	0.0	31.8
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc (P-1)	6.8	2.6	4.8	4.5	4.4	4.3	0.0	0.0	0.0	0.0	31.8
Initial Spares											
Total Proc Cost	6.8	2.6	4.8	4.5	4.4	4.3	0.0	0.0	0.0	0.0	31.8
Flyaway U/C											
Wpn Sys Proc U/C											

**DESCRIPTION:** The Muzzle Velocity System (MVS) Conventional is a Doppler Radar System which measures the muzzle velocity of artillery projectiles. It consists of weapon-mounted antenna connected to a display unit. The display will provide the muzzle velocity of the last round fired. The MVS will also compute weapon calibration data and store that data. A separate Paladin version of MVS is being fielded for use with the M109A6 Paladin Howitzer. It will not require a display and will be integrated into the M109A6 Paladin Automatic Fire Control System. The MVS will enhance artillery accuracy and first round hit probability. This will decrease projectile and propellant usage and reduce the requirements to adjust fire on target. The MVS will also provide an automated method for calculating and storing weapon calibration data. The MVS is being procured as a non-developmental item (NDI) which includes acquisition of provisioning data, manuals, and training, together with the production hardware for fielding and additional related hardware, Muzzle Velocity Communications Adapters (MCA).

**JUSTIFICATION:** The FY99 procurement supports fielded units and readiness requirements for both conventional and Paladin versions of the Muzzle Velocity System.



Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: ARTY MUZZLE VELOCITY SYSTEM (AD3250)		Weapon System Type:		Date: February 1998	
ID	CD	FY 96		FY 97		FY 98		FY 99	
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each
1. Hardware RSI/Related	A	4479	398	11	4343	358	12	4185	287
2. Engineering Support - In House Support		266			147			205	
3. Quality Support (ARDEC)		31			29			149	
4. Engr Change Proposal		9			4				
5. Total Package Fielding		25			25			14	
6. First Destination Transportation		1			1				
<b>TOTAL</b>		<b>4811</b>			<b>4549</b>			<b>4415</b>	<b>4404</b>

Exhibit P-5a, Budget Procurement History and Planning																					
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:		P-1 Line Item Nomenclature: ARTY MUZZLE VELOCITY SYSTEM (AD3250)															
WBS Cost Elements:		Contractor and Location		Contract Method and Type		Location of PCO		Award Date		Date of First Delivery		QTY		Unit Cost		Specs Avail Now?		Date Revisn Avail		RFP Issue Date	
Fiscal Years												Each		\$000		Now?					
Conventional *		RSI Electronics Poughkeepsie, NY		ACALA				May-96 Apr-97 Mar-98 Mar-98 Mar-99		Mar-97 Jul-98 Jul-00 Aug-99 Oct-00		50 100 7 159 245		14554 14554 14554 14554 17710		Yes Yes Yes Yes Yes		No No No No No			
Conventional - Option *		RSI Electronics Poughkeepsie, NY		ACALA				May-96 Apr-97 Mar-98		Jun-97 Nov-98 Jul-00		96 29 13		10697 10697 10697		Yes Yes Yes		No No No			
Paladin *		RSI Electronics Poughkeepsie, NY		ACALA				May-96 Apr-97 Mar-98		Nov-97 Nov-98 Dec-99		150 148 115		10608 10608 10608		Yes Yes Yes		No No No			
Paladin - Option *		RSI Electronics Poughkeepsie, NY		ACALA				May-96 Apr-97		Jun-97 Jun-98		102 74		8440 8440		Yes Yes		No No			
FY 96																					
FY 97																					
FY97																					
FY 98																					
FY 99																					
REMARKS: * Contract award includes both the Conventional and Paladin.																					

FY 98 / 99 BUDGET PRODUCTION SCHEDULE										P-1 Item Nomenclature: ARTY MUZZLE VELOCITY SYSTEM (AD3250)										Date: February 1998																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
MFR	NAME / LOCATION	PRODUCTION RATES				REACHED D +	MFR Number	ADMIN LEAD TIME		MFR		TOTAL	REMARKS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
		MIN.	1-8-5	MAX.	Prior 1 Oct.			After 1 Oct.	Prior 1 Oct.	After 1 Oct.	MFR leadtimes extended to maintain 1-8-5 production rates.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										MOD OF IN-SVC EQUIP (TAC SURV) (BZ7325)	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Other Related Program Elements:											
Program Elements for Code B Items:		Code:											
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	309.2	8.0	26.0	16.1	1.2	5.5	5.1	1.0	40.9	41.1	0.0	454.2	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	309.2	8.0	26.0	16.1	1.2	5.5	5.1	1.0	40.9	41.1	0.0	454.2	
Initial Spares													
Total Proc Cost	309.2	8.0	26.0	16.1	1.2	5.5	5.1	1.0	40.9	41.1	0.0	454.2	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION: MOD IN-SERVICE EQUIPMENT (TAC SURV) funds the modifications to the FIREFINDER radars, the AN/TPQ-36 Mortar Locating Radar and the AN/TPQ-37 Artillery Locating Radar. The FIREFINDER equipment is designed to meet the Army's critical need to quickly and accurately locate the large number and variety of hostile indirect fire weapons. The FIREFINDER radars use a combination of radar techniques and computer controlled signal processing to detect and locate enemy field artillery with sufficient accuracy to permit rapid engagement with counterfire. The FIREFINDER radars are capable of locating multiple weapons simultaneously and transmitting the target data to appropriate counterfire elements in near real time. The AN/TPQ-36 is a phased-array X-Band radar which automatically locates mortar and short range rocket launchers. The system is configured on three (3) HMMWVs making it highly mobile and transportable. The AN/TPQ-37 is a larger system requiring a 5-ton truck to pull the Antenna Transceiver Group (ATQ). The AN/TPQ-37 is a phased-array S-Band radar with a longer target acquisition range than the AN/TPQ-36 allowing it to locate long range artillery and rockets.

JUSTIFICATION: FY99 funding completes the installation of the AN/TPQ-36(V)8 Electronics Upgrade modification kits procured in FY96 and FY97. FY99 also initiates procurement of the Fire Support Digitization hardware/software required to upgrade the AN/TPQ-36(V)5/7s and the Active Army AN/TPQ-37s to allow AFATDS connectivity and provide Joint Technical Architecture (JTA)-Army compliance.



INDIVIDUAL MODIFICATION															
MODIFICATION TITLE: AN/TPQ-36(V)8 Electronics Upgrade 1-90-07-0016										Date February 1998					
MODELS OF SYSTEMS AFFECTED: AN/TPQ-36(V)5 and AN/TPQ-36(V)7 HMMWV Radar															
DESCRIPTION / JUSTIFICATION:															
<p>The AN/TPQ-36 is the primary target acquisition and counterfire system for the field artillery in support of Divisions, separate Brigades, and rapid deployment task forces. This program incorporates the first electronics upgrade to the 1970s technology of this system and corrects Operation Desert Storm identified deficiencies in range, false target rate, target throughput, target classification and displacement time. It replaces electronic components, that are rapidly approaching obsolescence, with standard Common Hardware/Software (CHS) and/or Commercial Off-The-Shelf (COTS) equipment. This Materiel Change provides a validated cost benefit of \$48.933M (FY92 constant dollars) attributed to Operational and Support (O&amp;S) savings over twenty years.</p> <p>FY99 funding completes the installation of the modification kits procured in FY96/97. FY02/03 funding will procure an additional fifty-five (55) modification kits to complete the Army AAO.</p>															
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:															
<p>Milestone III was approved in 3QFY96. Full Rate Production contract for eleven (11) modification kits was awarded in 4QFY96. An option for an additional eleven (11) kits was awarded in 2QFY97. Initial Operational Capability (IOC) is scheduled for 3QFY98. Contract award to procure additional modification kits is scheduled for 2QFY02.</p>															
Installation Schedule:															
Inputs * Outputs *	Pr Yr	FY 1997		FY 1998		FY 1999		FY 2000		FY 2001					
	Totals	1	2	3	4	1	2	3	4	1	2	3	4		
	8					5	6	5	6						
*Eight (8) LRIP Units installed at contractor's facility prior to delivery															
Inputs Outputs		FY 2002		FY 2003		FY 2004		FY 2005		Totals					
	1	2	3	4	1	2	3	4	1	2	3	4			
<table border="0" style="width:100%;"> <tr> <td style="width:50%;"> <b>METHOD OF IMPLEMENTATION:</b> FRP-Depot            Contract Dates: FY 1997 Jan-97            Delivery Date: FY 1997 Apr-98         </td> <td style="width:50%;"> <b>ADMINISTRATIVE LEADTIME:</b> N/A            FY 1998 N/A            FY 1998 N/A         </td> </tr> <tr> <td colspan="2"> <b>PRODUCTION LEADTIME:</b> 15 Months            FY 1999 N/A            FY 1999 N/A         </td> </tr> </table>												<b>METHOD OF IMPLEMENTATION:</b> FRP-Depot Contract Dates: FY 1997 Jan-97 Delivery Date: FY 1997 Apr-98	<b>ADMINISTRATIVE LEADTIME:</b> N/A FY 1998 N/A FY 1998 N/A	<b>PRODUCTION LEADTIME:</b> 15 Months FY 1999 N/A FY 1999 N/A	
<b>METHOD OF IMPLEMENTATION:</b> FRP-Depot Contract Dates: FY 1997 Jan-97 Delivery Date: FY 1997 Apr-98	<b>ADMINISTRATIVE LEADTIME:</b> N/A FY 1998 N/A FY 1998 N/A														
<b>PRODUCTION LEADTIME:</b> 15 Months FY 1999 N/A FY 1999 N/A															





INDIVIDUAL MODIFICATION																																																																																																																																																																																																																																																																																																																	
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<b>DESCRIPTION / JUSTIFICATION:</b> <p>This Materiel Change (MC) was initiated in response to mobility problems encountered during Operation Desert Storm. These problems included excessive wear of trailer tires, difficulty in moving the trailer through sand, and improper tracking of the trailer behind the assigned prime mover. The Antenna Transceiver Group (ATG) Mobility Improvement Program will apply the Medium Tracked Suspension System (MTSS), produced by Caterpillar, to the M-1048 trailer carrying the AN/TPQ-37 ATG. Testing demonstrated that application of the MTSS provides a wider footprint for the M-1048 trailer which improves trailer mobility in off-road use and does not degrade performance on paved surfaces at highway speeds.</p>																																																																																																																																																																																																																																																																																																																	
<b>DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:</b> <p>Milestone III was approved in 3QFY94. Production contract for twenty-six (26) modification kits was awarded in 4QFY94. First article testing was completed in 1QFY96. Application/fielding of modification kits began in 2QFY96 and was completed during 1QFY98.</p>																																																																																																																																																																																																																																																																																																																	
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INDIVIDUAL MODIFICATION													
AN/TPQ-37(V)7 ATG Mobility Improvement 1-92-07-0027													
Date February 1998													
MODIFICATION TITLE (Cont):													
FINANCIAL PLAN: (\$ in Millions)													
	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		TOTAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty
RDT&E													
PROCUREMENT													
Kit Quantity	26												26
Installation Kits													
Installation Kits, Nonrecurring													
Equipment		1.4											1.4
Equipment, Nonrecurring		1.2											1.2
Engineering Change Orders													
Data		0.1											0.1
Training Equipment													
Engineering Support		0.9		0.1									1.0
Other													
PM Admin		0.2											0.2
Fielding													
Interim Contractor Support													
Installation of Hardware													
FY 1996 & Prior Eqpt -- Kits	17	0.3	9	0.2									26
FY 1997 Eqpt -- Kits													
FY 1998 Eqpt -- Kits													
FY 1999 Eqpt -- Kits													
FY 2000 Eqpt -- kits													
FY 2001 Eqpt -- kits													
FY 2002 Eqpt -- kits													
FY 2003 Eqpt -- kits													
TC Equip-Kits													
Total Installation	17	0.3	9	0.2									26
Total Procurement Cost		4.1		0.3									4.4

INDIVIDUAL MODIFICATION																	
MODIFICATION TITLE: AN/TPQ-37(V)8 Enhanced FIREFINDER Block I 1-93-07-0001																	
MODELS OF SYSTEMS AFFECTED: AN/TPQ-37(V)5 AND (V)6																	
DESCRIPTION / JUSTIFICATION: <p>This Materiel Change (MC) is vital to keeping the AN/TPQ-37 radars sustainable in the field. The MC is limited to mechanical, electrical, and software changes necessary to maintain the Reliability, Availability, Maintainability (RAM), transportability, mobility and interoperability of the system through FY05. The effort will design, retrofit, and qualify modifications to the system as follows: upgrade the cooling system, and provide for transportability by a C130/141, upgrade the trailer, incorporate a self-survey capability, reduce false locations, correct and incorporate existing long range software, improve the transmitter RAM, integrate the AN/TPQ-36(V)7 Operations Control Group (OCG) on the M-1097.</p> <p>Funding in FY02 will procure an additional eight (8) modification kits.</p>																	
DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: <p>Milestone III was approved in 3QFY94. Production contract for twenty-six (26) modification kits was awarded in 3QFY94. First article testing was completed in 1QFY96. Application/fielding of modification kits began in 2QFY96 and was completed during 1QFY98. Contract award to procure additional modification kits is scheduled for 2QFY02.</p>																	
Installation Schedule:																	
Inputs Outputs	Pr Yr	FY 1997			FY 1998			FY 1999			FY 2000			FY 2001			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
	17	2	3		4												
	17	2	3		2												
Inputs Outputs		FY 2002			FY 2003			FY 2004			FY 2005			Totals			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
METHOD OF IMPLEMENTATION:		Depot		ADMINISTRATIVE LEADTIME:		Months		PRODUCTION LEADTIME:		15		Months					
Contract Dates:		FY 1997		N/A		FY 1998		N/A		FY 1999		N/A					
Delivery Date:		FY 1997		N/A		FY 1998		N/A		FY 1999		N/A					

INDIVIDUAL MODIFICATION													
Date February 1998													
AN/TPQ-37(V)8 Enhanced FIREFINDER Block I 1-93-07-0001													
MODIFICATION TITLE (Cont):													
FINANCIAL PLAN: (\$ in Millions)													
	FY 1996 and Prior		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		TOTAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty
RDT&E													
PROCUREMENT													
Kit Quantity	26												34
Installation Kits, Nonrecurring Equipment		10.5											14.9
Equipment, Nonrecurring		11.5											11.5
Engineering Change Orders													
Data		2.2											2.2
Training Equipment													
Engineering Support		0.7		0.1								0.1	1.0
Test												0.2	0.2
PM Admin		1.1											1.1
Fielding													
Interim Contractor Support													
Pre-Mod Depot Maint													
Installation of Hardware													
FY 1996 & Prior Eqpt -- Kits	17	0.5	9	0.3									26
FY 1997 Eqpt -- Kits													
FY 1998 Eqpt -- Kits													
FY 1999 Eqpt -- Kits													
FY 2000 Eqpt -- kits													
FY 2001 Eqpt -- kits													
FY 2002 Eqpt -- kits													
FY 2003 Eqpt -- kits													
TC Equip-Kits												0.4	0.4
Total Installation	17	0.5	9	0.3									34
Total Procurement Cost		26.5		0.4								4.7	32.1

INDIVIDUAL MODIFICATION															Date	February 1998																																																																																																																																																																																																						
<b>MODIFICATION TITLE:</b> Fire Support Digitization 1-95-07-XXXX																																																																																																																																																																																																																						
<b>MODELS OF SYSTEMS AFFECTED:</b> AN/TPQ-36(V)5/7 and AN/TPQ-37(V)8																																																																																																																																																																																																																						
<b>DESCRIPTION / JUSTIFICATION:</b> This upgrade will effect the FIREFINDER Operations Control Group (OCG) and will incorporate hardware and software to allow AFATDS connectivity and will provide JTA-Army compliance. The hardware required will be a Lightweight Computer Unit (LCU) and TACFIRE Control Interface Module (TCIM). FY 99 funding will initiate procurement of the hardware/software required to upgrade the AN/TPQ-36(V)5/7s and the Active Army AN/TPQ-37s.																																																																																																																																																																																																																						
<b>DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:</b> A Milestone Decision and Contract Award are scheduled for 1QFY99. First Article Testing and Delivery are planned for 4QFY99.																																																																																																																																																																																																																						
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Pr Yr	FY 2002				FY 2003				FY 2004				FY 2005				Totals																																																																																																																																																																																																					
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<b>METHOD OF IMPLEMENTATION:</b> Depot <b>Contract Dates:</b> FY 1997 <b>Delivery Date:</b> FY 1997																																																																																																																																																																																																																						
<b>ADMINISTRATIVE LEADTIME:</b> 3 Months <b>PRODUCTION LEADTIME:</b> 6 Months <b>FY 1998</b> <b>FY 1999</b> <b>1QFY99</b> <b>FY 1998</b> <b>FY 1999</b> <b>4QFY99</b>																																																																																																																																																																																																																						

INDIVIDUAL MODIFICATION													
Fire Support Digitization 1-95-07-XXXX													
MODIFICATION TITLE (Cont):													
FINANCIAL PLAN: (\$ in Millions)													
	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		TOTAL
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty
RDT&E													
PROCUREMENT													
Kit Quantity					59				14				73
Installation Kits													
Installation Kits, Nonrecurring													
Equipment													
Equipment, Nonrecurring					3.4				0.8				4.2
Engineering Change Orders					0.5								0.5
Data													
Training Equipment					0.1								0.1
Support Equipment													
Engineering Support					0.2				0.1				0.3
PM Admin					0.1				0.1				0.2
Interim Contractor Support													
Installation of Hardware													
FY 1996 & Prior Eqpt -- Kits													
FY 1997 Eqpt -- Kits													
FY 1998 Eqpt -- Kits													
FY 1999 Eqpt -- Kits													
FY 2000 Eqpt -- kits									59	0.6			59
FY 2001 Eqpt -- kits									14	0.2			14
FY 2002 Eqpt -- kits													
FY 2003 Eqpt -- kits													
TC Equip-Kits													
Total Installment									73	0.8			73
Total Procurement Cost							4.3		1.8				6.1

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										COMPUTER BALLISTICS; XM-30 (K99200)	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Other Related Program Elements:											
Program Elements for Code B Items:		Code:											
64802 / 613		B											
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty			210	232								442	
Gross Cost	27.0	0.0	4.8	6.8	0.0	0.0	3.0	0.0	0.0	0.0	0.0	41.7	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	27.0	0.0	4.8	6.8	0.0	0.0	3.0	0.0	0.0	0.0	0.0	41.7	
Initial Spares													
Total Proc Cost	27.0	0.0	4.8	6.8	0.0	0.0	3.0	0.0	0.0	0.0	0.0	41.7	
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:**  
The Mortar Ballistic Computer (MBC) calculates ballistics trajectories and gives the mortar user data to elevate gun, set charge, and direct fire for all mortar rounds. The MBC uses state of the art technology to provide digital message capability and mortar firing computations. The MBC will interface with other command and control communication devices to improve required response time and first round accuracy for mortar fire. It incorporates ADA software and is operationally compatible with forward entry device. The hardware is a ruggedized hand held computer which weighs less than six pounds (8.9 Lbs with case, carrying straps and 72-hour batteries).

**JUSTIFICATION:**  
The current M23 MBC is not supportable in the field due to repair and components no longer being available/procureable. Also, the memory capacity of the current M23 MBC does not support projected mortar ammunition items in inventory. The improved MBC will be capable of accepting software upgrades electronically, thus reducing the time and cost currently required to apply software upgrades via a hardware change to each fielded unit. The FY2000 program funds a pre-planned product improvement to bring the M30 into compliance with the Army Technical Architecture (ATA) standard.

Ident Code: B, TC-LP MAR96; TDP Avail - FEB97; TC STD JUN98



Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: COMPUTER BALLISTICS; XM-30 (K99200)		Weapon System Type:		Date: February 1998	
ID	OPA Cost Elements	FY 96		FY 97		FY 98		FY 99	
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each
B	1. COMPUTER	3041	210	14	3436	232	15		
	2. INTEGRATED LOGISTICS SUPPORT	150			293				
	3. GOV'T ENGINEERING SUPPORT	487			745				
	4. FIELDING				466				
	5. FIRST ARTICLE/PDN QUAL TEST	546			885				
	6. SOFTWARE UPGRADE				951				
	7. FOLLOW-ON TEST & EVAL	603							
	Total	4827			6776				

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature: COMPUTER BALLISTICS; XM-30 (K99200)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
1. COMPUTER FY 96 FY 97	GTE, Taunton, MA GTE, Taunton, MA	Option Option	CECOM CECOM	Dec-96 Apr-97	Aug-97 Jan-98	210 232	14 15	Yes Yes	N/A N/A	
<b>REMARKS:</b> GTE contract with PM Common Hardware/Software Systems awarded Jul 95. Award of FY96 delivery order delayed by PM CH/SS until completion of First Article Test. Common hardware computers will be shipped to Tobyhanna Army Depot for software loading, before delivery to field units.										





Exhibit P-40, Budget Item Justification Sheet											
Appropriation / Budget Activity/Serial No:		Date: February 1998									
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Item Nomenclature: INTEGRATED MET SYS SENSORS (IMETS) - TIA (BW0021)									
Program Elements for Code B Items:		Other Related Program Elements:									
Code: A											
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	5	13	5	2	5						30
Gross Cost	3.8	7.0	7.5	3.1	4.9	8.6					36.2
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc (P-1)	3.8	7.0	7.5	3.1	4.9	8.6					36.2
Initial Spares											
Total Proc Cost	3.8	7.0	7.5	3.1	4.9	8.6					36.2
Flyaway U/C											
Wpn Sys Proc U/C											

**DESCRIPTION:**

IMETS is a mobile tactical automated weather data receiving, processing, and dissemination system designed to provide timely weather and environmental effects forecasts, observations, and decision aid support to the Army. The IMETS is an Army-Furnished system consisting of a standard shelter and vehicle, Army Tactical Command and Control System (ATCCS) common hardware/software (CHS), and communications that will be operated by Air Force weather personnel and maintained within planned Army support for systems and components IAW AR 115-10/AFR 105-3. IMETS is deployed at Echelons Above Corps (EAC), Corps, Division (DIV), Separate Brigade, Armored Cavalry Regiment (ACR) and Special Operations Forces (SOF). Standard Integrated Command Post Shelters (SICPS) mounted on High Mobility Multi-Purpose Wheeled Vehicles (HMMWV) (heavy) house the IMETS. Each IMETS is configured identically and is capable of performing the following functions:

(1) receive weather data from all available sources: weather satellites; local and remote weather sensors at higher, lower and adjacent echelon IMETS; weather radar; artillery meteorology sections (ARTYMET); theater forecast units (TFUs) and USAF Global Weather Central; (2) process and display weather information, display weather radar data, display weather satellite data and imagery, and generate Tactical Decision Aids ; (3) disseminate weather data, forecasts, and Tactical Decision Aids via area communications system, to all users and to other IMETS at higher, lower and adjacent echelons; (4) operate independently using High Frequency receivers, satellites, or communications networks as appropriate; and (5) relocate with the unit to which it is assigned.

**JUSTIFICATION:**

FY99 funding supports the procurement and fielding of the five Block II IMETS to Force Package 1 & 2 units. IMETS is the first link in providing the most accurate and current weather information and weather effects, therefore supporting the concept of a near all weather operational capability.

0 OPA Cost Analysis			Appropriation/Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: INTEGRATED MET SYS SENSORS (IMETS) - TIA (BW0021)			Weapon System Type:			Date: February 1998		
ID	CD	OPA Cost Elements	FY 96			FY 97			FY 98			FY 99		
			TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
1.	A	Hardware												
		- CHS-2 V1 High Capacity Computer Unit	192	6	32		1	32						
		- CHS-2 V1 Software	71		12									
		- CHS-2 V2 High Capacity Computer Unit	980	28	35		10	35	152	4	38			
		- CHS-2 V2 Software	93		42				13					
		- CHS-2 V2 Ultra Capacity Computer Unit											10	39
		- CHS-2V2 Ultra Software	23		30				2			30		
		- CHS-2 Software Maintenance	78	13	6		5	6	12	2	6	25	5	6
		- Tactical Comm. Interface Module (TCIM)										30		
2.		Project Management Administration	525						133			160		
3.		Engineering Support	4121						838			3534		
4.		Interim Contractor Support	420						120			240		
5.		Fielding	960						68			481		
TOTAL			7463						1338			4890		

Exhibit P-5a, Budget Procurement History and Planning											
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:		P-1 Line Item Nomenclature: INTEGRATED MET SYS SENSORS (IMETS) - TIARA (BW0021)					
WBS Cost Elements: Fiscal Years		Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
FY96 CHS-2 V1 CHS-2 V2 CHS-2 TCIM		GTE, Taunton, MA GTE, Taunton, MA SAIC, San Diego, ca	C/Option C/Option C/Option	CECOM CECOM CECOM	Dec-95 Dec-95 Dec-95	Jul-96 Jul-96 Jul-96	6 28 13	32 35 6	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A
FY97 CHS-2 V1 CHS-2 V2 CHS-2 TCIM		GTE, Taunton, MA GTE, Taunton, MA SAIC, San Diego, ca	C/Option C/Option C/Option	CECOM CECOM CECOM	Dec-96 Dec-96 Dec-96	Jul-97 Jul-97 Jul-97	1 10 5	32 35 6	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A
FY 98 CHS -2 V2 HCU CHS-2 TCIM		GTE, Taunton, MA SAIC, San Diego, ca	C/Option C/Option	CECOM CECOM	Dec-97 Dec-97	May-98 May-98	4 2	38 6	N/A N/A	N/A N/A	N/A N/A
FY99 CHS-2 V2 UCU CHS-2 TCIM		GTE, Taunton, MA SAIC, San Diego, ca	C/Option C/Option	CECOM CECOM	Dec-98 Dec-98	Jul-99 Jul-99	10 5	39 6	N/A N/A	N/A N/A	N/A N/A
REMARKS: All IMETS equipment and software is NDI/COTS purchased through the PM CHS or other Army activities.											

<b>Exhibit P-40, Budget Item Justification Sheet</b>										Date: February 1998		
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		TACTICAL OPERATIONS CENTERS (BZ9865)										
Program Elements for Code B Items:		Code:		Other Related Program Elements:								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost						26.7	28.7	27.6	36.3	27.4		146.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)						26.7	28.7	27.6	36.3	27.4		146.6
Initial Spares												
Total Proc Cost						26.7	28.7	27.6	36.3	27.4		146.6
Flyaway U/C												
Wpn Sys Proc U/C												

**DESCRIPTION:** Army Tactical Operations Centers (TOCs) are the automated facilities where commanders will plan, control, maintain situational awareness, and execute battle command. For the Digitized Army, TOCs will incorporate Army Battle Command Systems (ABCS), five Army Tactical Command and Control Systems (ATCCS) systems, and Force XXI Battle Command - Brigade and Below (FBCB2)) providing the framework for the digitized battlefield, fully integrate and digitally link Battlefield Operating Systems (BOSS); and meet the requirements mandated by the Army Technical Architecture (ATA) and the Defense Information Infrastructure (DII) Common Operating Environment (COE). A standard/common TOC operational architecture and system architecture tailored to the echelon of command and mission area will be developed to assure interoperability and commonality.

**JUSTIFICATION:** The Army TOC Program will provide centrally funded TOCs for the First Digitized Corps and support warfighting customer initiatives. Army TOCs will ensure the objectives of standardization and interoperability across forces by developing and fielding operationally effective and supportable integrated, digitized tactical operational centers that satisfy the functional information requirements of commanders and staffs at all echelons of command. FY99 funds will procure integration hardware, integration services, and fielding to upgrade and refurbish 23 DIV XXI TOCs and 15 new TOCs. Army TOCs are the C2 nodes which will, for the first time, provide a digital information based operation to plan, control, and dynamically update in real time as the situation evolves/changes. The Army TOC Program is critical to the success of Army Digitization Modernization and to provide warfighters with the tools to win the information war.





Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature: TACTICAL OPERATIONS CENTERS (BZ9865)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
1. System Integration FY99	TBD	TBD	AMCOM	1QFY99	4QFY99	38	539	TBD	TBD	TBD
REMARKS:										

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												ADV FIELD ARTILLERY TACT DATA SYS (AFATD (B28600))
Code: A												Other Related Program Elements:
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	54	118	226	291	190	212	198	349	393	368	944	3343
Gross Cost	63.0	10.6	31.7	36.8	32.3	36.7	37.7	41.6	41.7	40.1	137.9	510.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	18.0	10.6	31.7	36.8	32.3	36.7	37.7	41.6	41.7	40.1	137.9	465.1
Initial Spares			0.2	2.1	2.0	3.3	2.8	2.7	2.9	2.6	9.5	28.1
Total Proc Cost	18.0	10.6	31.9	38.9	34.3	40.0	40.5	44.3	44.6	42.7	147.4	493.2
Flyaway U/C		90.1	96.4	98.3	92.8	119.7	121.4	92.7	80.9	80.3	97.2	
Wpn Sys Proc U/C	120.8	90.1	129.7	126.4	170.0	173.0	190.6	119.2	106.1	109.0	155.8	

AFATDS is a single integrated battlefield management and decision support system. It will function on the digital battlefield at Battery through Echelons Above Corps as one of the five battlefield automated systems of the Army Battlefield Command and Control Systems (ABCS). AFATDS utilizes evolving technology of the ABCS Common Hardware/Software procurement. AFATDS is designed to overcome the size, vulnerability, high sustainment cost, limited functionality, central processing and training limitations of the present artillery battalion, division and corps fire direction systems. AFATDS will take advantage of advancing software technology, graphics, decision aids and embedded training to expand the Fire Support functions. AFATDS will be the Fire Support node of the ABCS utilizing the Army Common Operating Environment architecture and providing software assistance to the Fire Support elements and interfacing with all subsystems subordinate to AFATDS and other nodes of the ABCS via standard communications media available to the force. AFATDS will provide all 27 Fire Support functions. These 27 functions are grouped into five Fire Support operational needs: Fire Support Execution, Fire Support Planning, Movement Control, Field Artillery Mission Planning, and Field Artillery Fire Direction Operations.

AFATDS hardware items are composed of the following: Fire Support Control Terminal (FSCT), Lightweight Computer Unit (LCU), Tactical Communications Interface Module (TCIM), printers, Tactical Display Devices, and interface kits. This will all be ABCS Common Hardware. Responsiveness, survivability and continuity of operations will be enhanced via dispersed processing centers, intelligent remote terminals, a distributed data base management system and distributed operations. AFATDS will interface with all functional control elements of existing and future Army Fire Support Systems, including the other ABCS Battlefield Functional Area systems, other services employing Fire Support Joint Interoperability message standards and Allied Forces using NATO Fire Support Standards.

Justification: AFATDS will greatly enhance the fire support capability of the battlefield through responsiveness, survivability and continuity of operations. It will provide a complete fire control command and control capability to the commander. FY99 will procure 2 Heavy Divisions, 1 Armored Cavalry Regiment, Training Base hardware and backfill requirements for Forward Observer, FIST, and COLT units upon availability of the Forward Observer Software (FOS).

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: ADV FIELD ARTILLERY TACT DATA SYS (AFATD (B28600))				Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
Hardware *	A	17234	226	76	20770	291	71	16817	226	74	24010	241	100
Program Management Administration		1486			1930			2140			2185		
Engineering Support		4404			4915			4415			4520		
Interim Contractor Support		142			1452			2128			2153		
Fielding Total Package Fielding New Equipment Training		1095 1610			1321 2977			1416 2654			1359 1744		
BCD/AWE Support		5759			3480			2700			700		
Total		31730			36845			32270			36671		
* Hardware unit cost reflects the average of Training Base, LCU's, FSCT's, and other peripherals required for each fielded unit. FY99 unit cost increased due to the requirements for LCU upgrade kits, and higher percentage of GYG-1V3 and GYG-1V4.													
**P5 quantity has been adjusted to reflect current program planning													

\* Hardware unit cost reflects the average of Training Base, LCUs, FSCTs, and other peripherals required for each fielded unit. FY99 unit cost increased due to the requirements for LCU upgrade kits, and higher percentage of GYG-1V3 and GYG-1V4.

\*\*P5 quantity has been adjusted to reflect current program planning

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:		P-1 Line Item Nomenclature:			
WBS Cost Elements: Fiscal Years				Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000
FY96:									
FSCT				C/OPTION	CECOM	Feb-96	Jun-96	36	93
LCU				C/OPTION	CECOM	Feb-96	Jun-96	76	38
LCU				C/OPTION	CECOM	Jul-96	Dec-96	36	38
IK				C/OPTION	CECOM	Jul-96	Jan-97	178	20
FSCT				C/OPTION	CECOM	Jul-96	Feb-96	40	93
LCU				C/OPTION	CECOM	Aug-96	Feb-97	58	38
FY97:									
FSCT				C/OPTION	CECOM	Jan-97	May-97	197	85
LCU				C/OPTION	CECOM	Jan-97	Jun-97	94	36
LCU Upgrade				C/OPTION	CECOM	Jan-97	Jun-97	6	19
IK				C/OPTION	CECOM	Jan-97	Jun-97	29	15
FY98:									
FSCT				C/OPTION	CECOM	Jan-98	May-98	160	82
LCU				C/OPTION	CECOM	Jan-98	Jun-98	66	38
LCU Upgrade				C/OPTION	CECOM	Jan-98	Jun-98	20	20
IK				C/OPTION	CECOM	Jan-98	Jun-98	78	15
FY99:									
FSCT				C/OPTION	CECOM	Jan-99	May-99	143	109
LCU				C/OPTION	CECOM	Jan-99	Jun-99	98	39
LCU Upgrade				C/OPTION	CECOM	Jan-99	Jun-99	186	20
IK				C/OPTION	CECOM	Jan-99	Jun-99	56	15
REMARKS: FSCT, Ultrasparc Computer Unit (UCU), and LCU are commercial level off-the-shelf hardware being procured on the Common Hardware Software (CHS) contract. IKs reflect total cost for Command Vehicles and FIST Installation Kits. FSCT unit cost reflects varying requirements for peripheral components.									

Exhibit P-40, Budget Item Justification Sheet												Date: February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												FIRE SUPPORT ADA CONVERSION (B78400)
Program Elements for Code B Items:												Other Related Program Elements:
Code: A												
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	1932											1932
Gross Cost	273.1	9.5	0.0	2.1	3.2	0.0	0.0	0.0	0.0	0.0	0.0	287.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	273.1	9.5	0.0	2.1	3.2	0.0	0.0	0.0	0.0	0.0	0.0	287.9
Initial Spares	3.0	2.3										5.3
Total Proc Cost	276.1	11.8	0.0	2.1	3.2	0.0	0.0	0.0	0.0	0.0	0.0	293.2
Flyaway U/C												
Wpn Sys Proc U/C												

**DESCRIPTION:**

The Fire Support Ada conversion (FSAC) is composed of two software programs to provide Command and Control at corps through platoon level for Multiple Launch Rocket System (MLRS) units, and for tactical fire control for cannon and battery levels. FSAC fieldings were completed in May 96 and it is not intended to fund this line past FY 98. The FSAC program funding in FY 97 and 98 provides for Package 11 Upgrades, maintenance of equipment, and funding conversions on an individual basis. Package 11 requires existing LCU's have upgraded Hard Disk Drives to support the modified software as directed by ODCSOPS.

On 21 April 1995 ODCSOPS further directed PM FATDS to initiate the Lightweight Forward Entry Device (LFED) program with the FSAC funding line. The LFED is a hand-held programmable input/output unit used for composing, editing, transmitting, receiving and displaying alphanumeric and graphic messages for transmission over standard military radios.

**JUSTIFICATION:** There is no funding in FY99

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: FIRE SUPPORT ADA CONVERSION (B78400)				Weapon System Type:		Date: February 1998	
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99					
ID	CD		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
1. Hardware LCU (Upgrade)* LFED						1613	70	23	446 1733	583 105	1 17			
2. Project Management Administration						100			168					
3. Engineering Support						289			381					
4. Contract Support						75			90					
5. Fielding									391					
TOTAL						2077			3209					
*Note: LCU Hardware reflects Hard Disk Drives to support Package 11 requirements.														

\*Note: LCU Hardware reflects Hard Disk  
Drives to support Package 11 requirements.

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998	
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature: FIRE SUPPORT ADA CONVERSION (B78400)							
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Reven Avail	RFP Issue Date
FY97 LFED	GTE Taunton, MA		C/OPTION	CECOM	Jun-97	Mar-98	70	23042	YES			
FY98 LCU (Upgrades) LFED	Litton San Diego, CA GTE Taunton, MA		C/OPTION C/OPTION	CECOM CECOM	Jan-98 Jan-98	Jun-98 Jun-98	583 105	765 16500	YES YES			
REMARKS: The above hardware is NDI/COTS.												



Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998	
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:		
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												CMBT SVC SUPT CONTROL SYS (CSCS) (W34600)		
Program Elements for Code B Items:												Other Related Program Elements:		
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog		
Proc Qty			38	54	57	122	270	249	160	240	422	1612		
Gross Cost	0.0	6.0	4.5	5.8	5.6	9.3	20.8	18.9	16.3	20.0	37.3	144.6		
Less PY Adv Proc														
Plus CY Adv Proc														
Net Proc (P-1)	0.0	6.0	4.5	5.8	5.6	9.3	20.8	18.9	16.3	20.0	37.3	144.6		
Initial Spares			0.5	0.8	0.3	0.2	0.2	0.2	0.2	0.2	0.2	2.8		
Total Proc Cost	0.0	6.0	5.0	6.6	5.9	9.5	21.0	19.1	16.5	20.2	37.5	147.4		
Flyaway U/C		41.0	59.0	52.0	58.0	59.0	45.0	44.0	52.0	49.0	43.0	47.0		
Wpn Sys Proc U/C		82.0	132.0	122.0	145.0	91.0	78.0	76.0	103.0	84.0	89.0	89.0		

**DESCRIPTION:** Combat Service Support Control System (CSCS) is an automated command and control (C2) system supporting the CSS component of the Army Battle Command System (ABCS), providing the commander a critical logistical C2 capability for the Army's Force XXI. The CSCS will rapidly collect, analyze and disseminate CSS information to support the functions of command, control and resource management. CSS commanders and staffs are currently participating in the force level planning and decision-making process through a manual effort of gathering correlating, and analyzing volumes of technical data from the existing Standard Army Management Information Systems (STAMIS). CSCS will provide timely situational awareness and force projection to determine capability to sustain current operations and support future operations. CSCS uses evolving commercial computer technology of the Common Hardware/Software (CHS), and software built within a Common Operating Environment (COE). CSCS will be deployed at echelons above corps, corps, divisions, maneuver brigades, separate brigades and armored cavalry regiments. The total OPA requirement for CSCS is 1,651 systems.

**JUSTIFICATION:** FY99 funds will support the procurement and fielding of the CSCS in Full Scale Production. Fielding locations include the XVIII Airborne Corps, 101st Air Assault Division, 3rd Infantry Division, and the training base. This automated CSCS node is required to support the fielding and operation of ABCS by providing a responsive automated CSS operation that is capable of supporting the Commander's requirement to perform timely prediction and situation analyses.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: CMBT SVC SUPT CONTROL SYS (CSSCS) (W34600)				Weapon System Type:		Date: February 1998	
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99					
ID	CD		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
1.		Hardware	2256	38	59	2812	54	52	2327	40	58	6196	105	59
2.		Program Management Admin												
3.		Engineering Support	338			352			305			375		
4.		TPF	360			805			418			458		
5.		NET	931			1153			975			1051		
6.		FDT	41			48			51			66		
7.		ICS	210			216			261					
8.		Other	411			392			305			180		
TOTAL			4547			5778			5590			9332		
NOTE: P5 Quantities have been adjusted to reflect current program planning.														

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature: CMBT SVC SUPT CONTROL SYS (CSSCS) (W34600)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
1. Hardware FY 96 FY 97 FY 98 FY 99	GTE, TAUNTON, MA GTE, TAUNTON, MA GTE, TAUNTON, MA GTE, TAUNTON, MA	C/Option C/Option C/Option C/Option	CECOM CECOM CECOM CECOM	Jan-96 Jul-97 Jan-98 Jan-99	May-96 Oct-97 May-98 May-99	38 54 40 105	59 52 58 59	Yes Yes Yes Yes		
REMARKS:										

Exhibit P-40, Budget Item Justification Sheet											Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:									FAAD C2 (AD5050)	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												
Program Elements for Code B Items:		Code:		Other Related Program Elements:								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty*	2		3	3	1	2	1	1	3	2	7	25
Gross Cost	13.6	17.8	42.9	41.9	12.7	14.2	11.2	11.2	10.7	9.1	174.1	359.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	13.6	17.8	42.9	41.9	12.7	14.2	11.2	11.2	10.7	9.1	174.1	359.4
Initial Spares			1.6	1.2	1.6	0.8			0.0	0.0	0.0	5.2
Total Proc Cost	13.6	17.8	44.5	43.1	14.3	15.0	11.2	11.2	10.7	9.1	174.1	364.5
Flyaway U/C**		8.75	14.10	13.70	8.30	5.90	5.20	4.90	4.80	4.30		
Wpns Sys Proc U/C**		8.89	14.30	14.00	10.40	6.40	5.60	5.60	5.40	4.80		

DESCRIPTION: The Forward Area Air Defense Command and Control (FAAD C2) System is an automated system deployed with FAAD weapons to provide accurate and timely command, control, and targeting information for weapon systems. The system utilizes non-developmental item sensors (Light and Special Division Interim Sensor and/or Sentinel (Ground Based Sensor)), computers, displays, and interface hardware integrated with data communication equipment. It automates mission-related functions and uses the Single Channel Ground and Airborne Radio Systems (SINGARS) for voice and the Army Data Distribution System (ADDS) for data. Limited production of the system was authorized in May 1993 and the first unit equipped was the 101st Airborne Divisions (Air Assault) in September 1993. Since this fielding occurred prior to the availability of the Enhanced Position Location Reporting System (EPLRS) portion of ADDS, additional SINGARS radios were added to transmit data. On 1 March 1995, this program was designated an Acquisition Category 1C (ACAT 1C) from ACAT 1D by the Undersecretary of Defense for Acquisition and Technology. In April 1995 full scale production was approved and type classification was granted by the Army Acquisition Executive contingent on the Joint Requirements Oversight Council approval of the Operational Requirements Document; the approval was granted in June 1995.

JUSTIFICATION: FY 1997-FY 1999 dollars will be used to procure Common Hardware Software (CHS) computers, displays, software, and Joint Tactical Information Distribution Systems (JTIDS) to field heavy divisions and remaining units. FAAD C2 enables maneuver commanders to receive air attack warnings from Corps, Division, Brigade, and Battalion to the individual shooter. FAAD C2 also enables the alerting of air defense gunners, enhances capability for air space management, and automated uptell of acknowledgment of mission and unit position, ultimately enhancing protection to the Force.

\* 2 additional prior years units procured during development for a total of 30 units (database should show 28 total).

\*\* Does not include all SAR data; SAR includes FAADC2 and Sentinel (Ground Based Sensor)

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: FAAD C2 (AD5050)				Weapon System Type:		Date: February 1998	
ID	CD	FY 96		FY 97		FY 98		FY 99		TotalCost \$000	UnitCost \$000	Qty Each	UnitCost \$000
		TotalCost \$000	Qty Each	TotalCost \$000	Qty Each	TotalCost \$000	Qty Each	TotalCost \$000	Qty Each				
1.		24369	3	8123	3	9941	1	8440	2	10893		2	5447
Tadil J Enhancement													
2.		2061						1049		1200			
Project Management Administration													
3.		604						700		336			
Fielding													
TPF													
NET													
FDT													
4.		450						387		250			
Interim Contractor Support													
5.		712						432		750			
Engineering Support													
SUBTOTAL													
Other than FAAD C2													
6.		4800								14204			
Air Defense Tactical Operations Center													
7.													
Div XXI													
8.													
3d Army TOCS													
TOTAL													
*QUANTITIES ARE BASED ON ORGANIZA- TIONAL UNITS THAT VARY IN SIZE BASED ON SPECIFIC MISSION AND EQUIPMENT REQUIREMENTS. QUANTITIES REPORTED REFLECT A COMPOSITE NUMBER OF SPE- CIFIC REQUIREMENTS (HEAVY DIV, LIGHT DIV, ARMORED CAVALRY REGIMENT, CORPS MISSILE BATTALION, TRAINING BASE, AND SPECIAL DIV).													
** 2 ADDITIONAL PRIOR YEAR UNITS PROCURED DURING DEVELOPMENT FOR A TOTAL OF 30 UNITS													

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature: FAAD C2 (AD5050)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
HARDWARE										
FY 1996	GTE, TAUNTON, MA MILTOPE, MONTGOMERY, AL	C/OPTION CECOM C/OPTION CECOM		Dec-95 Dec-95	Apr-96 Apr-96	2 1	8123	YES		
FY 1997	GTE, TAUNTON, MA	C/OPTION CECOM		Dec-96	Apr-97	3	9941	YES		
FY 1998	GTE, TAUNTON, MA	C/OPTION CECOM		Dec-97	Apr-98	1	8440	YES		
FY 1999	GTE, TAUNTON, MA	C/OPTION CECOM		Dec-98	Apr-99	2	5447	YES		
REMARKS:										

Exhibit P-40, Budget Item Justification Sheet											Date:
Appropriation / Budget Activity/Serial No:											February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment											P-1 Item Nomenclature:
Program Elements for Code B Items:											FORWARD ENTRY DEVICE (FED) (BZ9851)
Code:											Other Related Program Elements:
A											
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty											
Gross Cost	88.0	0.0	10.0	2.3	25.0	8.1	10.7		2.0	53.1	199.2
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc (P-1)	88.0		10.0	2.3	25.0	8.1	10.7		2.0	53.1	199.2
Initial Spares											
Total Proc Cost	88.0	0.0	10.0	2.3	25.0	8.1	10.7		2.0	53.1	199.2
Flyaway U/C											
Wpn Sys Proc U/C											

**DESCRIPTION:**  
The FED is an integral part of the digitized fire support system architecture. The FED provides the vital sensor to shooter link required for effective fires. The FED also provides critical situation awareness for forward deployed field artillery units.

The Forward Entry Device (FED) program provides the hardware platform to support DoD mandated interoperability/Army digitization requirements (to include implementation of the MIL STD 188-220A protocol and Variable Message Format), to support the new functional user requirements under the next software release and Joint technical architecture-Army (JTA-A). FED is used in the Heavy Divisions by the Forward Observer (FO), Field Artillery (FA) Battery Commanders and Fire Support Team (FIST) personnel.

The FED will utilize the same hardware as the Lightweight Forward Entry Device (LFED). FED replacement ensures continued Heavy Division Digital Communications utilizing the Forward Operating System (FOS) software. Without the FED only manual voice call-for-fire missions will be possible.

**JUSTIFICATION:** In FY99 we are buying 852 units which will complete the 1st Digitized Division.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: FORWARD ENTRY DEVICE (FED) (BZ9851)		Weapon System Type:		Date: February 1998	
ID	CD	FY 96		FY 97		FY 98		FY 99	
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each
1. Hardware *					9983	536	19	743	45
2. Program Management Administration**								1510	
3. Engineering Support***								4039	
4. Contract Support								279	
5. Fielding								2598	
Totals					9983			25040	852
* FY99 Unit cost increase is due to the retrofit of the previous boxes, increased RAM, an upgrade to a Pentium Plus and the requirement for a printer and IK in these units. ** FY97 management support for this program was funded out of the FSAC line (B78400) *** The increase in Engineering Support in FY99 is due to the requirement to test and incorporate voice recognition into the software and the HTU boxes.									



Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature: FORWARD ENTRY DEVICE (FED) (BZ9851)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
FY97	GTE Taunton, MA	C/OPTION	CECOM	Mar-97	Mar-98	536	18625	YES		
FY98	GTE Taunton, MA	C/OPTION	CECOM	Jan-98	May-98	45	16500	YES		
FY99	GTE Taunton, MA	C/OPTION	CECOM	Nov-98	Mar-99	852	19500	YES		
<b>REMARKS:</b> *FY97 award delivery reflects shipment in place pending upgrade to 586. This decision to wait for the 586 computers resulted in a savings of \$300 per unit.										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										STRIKER-COMMAND AND CONTROL SYSTEM (B78500)	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Other Related Program Elements:											
Program Elements for Code B Items:		Code: B											
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty						15	34	39	60	47	56	251	
Gross Cost	0.0	0.0	0.0	0.0	0.0	6.0	13.7	15.5	23.7	18.4	24.1	101.4	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	0.0	0.0	0.0	6.0	13.7	15.5	23.7	18.4	24.1	101.4	
Initial Spares													
Total Proc Cost	0.0	0.0	0.0	0.0	0.0	6.0	13.7	15.5	23.7	18.4	24.1	101.4	
Flyaway U/C													
Wpn Sys Proc U/C						.4	.4	.4	.4	.4	.4		

**DESCRIPTION:** The LaserStrike (Striker) program integrates the Bradley Fire Support Vehicle (BFIST) mission equipment package (MEP) into a HMMWV chassis supporting heavy and light force fire support operations. The LaserStrike program is a continuation of the BFIST program designed specifically for the Combat Observation Lasing Team (COLT) in heavy divisions and light divisions. The LaserStrike was approved as a Warfighting Rapid Acquisition Program (WRAP) designed to get the LaserStrike operational enhancement to the soldier quickly at the best cost.

**JUSTIFICATION:** The LaserStrike program modifies components of existing systems and leverages acquisition resources already dedicated for the BFIST program. The LaserStrike program will also leverage test and development activities, along with providing for Horizontal Contract Integration (HCI) across platforms. The LaserStrike provides for integration of the BFIST MEP as a bolt on kit. This strategy will reduce costs and acquisition time, while also affording greater adaptability of the LaserStrike kit to common wheeled platforms.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: STRIKER-COMMAND AND CONTROL SYSTEM (878500)				Weapon System Type:		Date: February 1998		
OPA Cost Elements		ID	FY 96		FY 97		FY 98		FY 99					
		CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
Hardware Cost														
1. Vehicle upgrade														
SUBTOTAL												4024	13	310
Non Recurring Production												4024		
2. Engineering Contractor														
3. Engineering Government												1300		
4. Fielding												253		
5. Test & Evaluation												369		
												79		
SUBTOTAL												2001		
TOTAL												6025		
NOTE: Quantity has been adjusted to reflect current program planning.														

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:			P-1 Line Item Nomenclature: STRIKER-COMMAND AND CONTROL SYSTEM (B78500)				
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
1. Vehicle upgrade FY 99	SEI, St Louis, MO	SS/FFP	USATACOM, Warren, MI	Dec-98	Jun-99	13	310			
REMARKS:										



Exhibit P-40, Budget Item Justification Sheet												
Appropriation / Budget Activity/Serial No:										Date:		
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										February 1998		
P-1 Item Nomenclature:										LIFE CYCLE SOFTWARE SUPPORT (LCSS) (BD3955)		
Program Elements for Code B Items:										Other Related Program Elements:		
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	54.4	1.5	2.0	2.0	1.8	1.2	0.9	1.8	1.9	1.9		69.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	54.4	1.5	2.0	2.0	1.8	1.2	0.9	1.8	1.9	1.9		69.5
Initial Spares												
Total Proc Cost	54.4	1.5	2.0	2.0	1.8	1.2	0.9	1.8	1.9	1.9		69.5
Flyaway U/C												
Wpn Sys Proc U/C												

**Description:** Life Cycle Software Engineering (LSCE) support, by the Software Engineering Center, provides the essential services needed to maintain CECOM managed fielded Battlefield Automated Systems (BAS) in a state of operational readiness. The Mobile Subscriber Equipment, Maneuver Control Systems, Firefinder, TRITAC Switches, and Intelligence/Electronic Warfare Systems are some of the 221 BASs supported by the SEC that directly depend on LCSE support to maintain a posture of mission critical readiness. Adequate funding for LCSE support is essential for the acquisition, operation, maintenance and sustainment of multi-host computer systems, peripherals, interfaces, support equipment, test beds, components, and software used to provide the necessary services and support to maintain BASs in a state of operational readiness.

**Justification:** Policy for PPSS requires that system managers provide initial host capabilities for new systems, and that the Life Cycle Software Engineering Centers (LCSEC) provide upgrades and replacement of obsolete equipment. Significant portions of host and network equipment are five years old or older and/or reaching obsolescence. There is the requirement to respond to emergency requests from the field for Software Engineering support in order to maintain operational readiness of deployed BASs. With host computers, peripherals (e.g., memory storage devices, terminals, keyboards, and printers, media and replication equipment) having a life-span of approximately five years and the SEC performing its mission over a continuous period of time beyond five years, equipment must be replaced and/or upgraded regularly to deal with obsolescence and to take advantage of the continual improvements in technology that are indigenous to high-technology based weapon systems and their software support environments, in order to meet the ever increasing mission requirements imposed by the field. Funding for this task is essential to provide and maintain the software support environments and LCSE support required to maintain fielded BASs in a state of operational readiness, worldwide, to support the Soldier in the field.



Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:		P-1 Line Item Nomenclature: LIFE CYCLE SOFTWARE SUPPORT (LCSS) (BD3955)						
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
S/W Development Tools FY 96		NATIONS/NJ		C/TM	CECOM	Apr-96	Jun-96	1	200			
S/W Development Environment Upgrade FY 96		GTE/NEEDHAM, MA		C/TM	CECOM	Apr-96	Jun-96	1	181			
Host System Upgrades FY 96		TELOS/HERNDON, VA		C/FP	CECOM	Apr-96	Jun-96	1	173			
Vaxcluster HSC 50 Upgrade FY 96		DIGITAL/PISCATAWAY, NJ		C/FP	CECOM	Apr-96	Jun-96	1	430			
Vax LAN Ultrix Upgrade FY 96		GTE/NEEDHAM, MA		C/TM	CECOM	May-96	Jun-96	1	383			
FY 97		LOGICON/SAN PEDRO		C/FP	CECOM	Jan-97	Mar-97	1	115			
FY 97		DATA PROCURE CORP, MD		C/FP	CECOM	May-97	Jun-97	1	165			
ETHERNET Upgrade FY 96		LCU H/M FT MONMOUTH, NJ		C/FP	CECOM	Apr-96	Jun-96	1	256			
Office Environment Upgrades FY 96		TVS/FT MONMOUTH, NJ		C/TM	CECOM	Jun-96	Aug-96	1	131			
IBM Peripheral Equipment Buffer Unit FY 96		GTE/NEEDHAM, MA		C/TM	CECOM	May-96	Jun-96	1	260			
REMARKS:												



Exhibit P-5a, Budget Procurement History and Planning																					
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					Weapon System Type:		P-1 Line Item Nomenclature: LIFE CYCLE SOFTWARE SUPPORT (LCSS) (BD3955)														
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type		Location of PCO		Award Date		Date of First Delivery		QTY		Unit Cost		Specs Avail Now?		Date Revis Avail		RFP Issue Date	
Mission Critical Defense Testbed Upgrade FY 97 FY 97		TELOS/ASHBURN VA GTE/NEEDHAM, MA		C/FP C/TM		CECOM CECOM		Jan-97 Apr-97		Mar-97 Jun-97		1 1		330 36							
Sun Microsystems Upgrade FY 97 FY 97		LOGICON/SAN PEDRO, CA CONTROL CONCEPTS, VA		C/FP GSA		AIR FORCE MAT COM NAVY		Mar-97 Mar-97		Apr-97 Apr-97		1 1		100 31							
IBM Replacement Upgrade FY 97		GTE/NEEDHAM, MA		C/TM		CECOM		Jun-97		Feb-98		1		932							
Fire Support Infrastructure Upgrade FY 97		TELOS/ASHBURN, VA		C/TM		CECOM		Jan-98		Jan-98		1		294							
VAX Cluster Upgrade FY 98		TBD		C/TM				Jan-98		Jan-98		1		237							
Tri-Band Satellite Terminal FY 98		TBD		C/TM		CECOM		Apr-98		Oct-98		1		1000							
Network Support(UNICENTER/TNG) FY 98		CSC/ Falls Church, VA		C/TM		CECOM		Feb-98				1		155							
S/W Support Environment for IEWCS FY 98		TBD		C/TM		CECOM		Apr-98				1		154							
REMARKS:																					

Exhibit P-5a, Budget Procurement History and Planning										
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:			P-1 Line Item Nomenclature: LIFE CYCLE SOFTWARE SUPPORT (LCSS) (BD3955)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
VTC Bridge FY 98	TFE/Ashburn, VA	C/PAF	CECOM	Jan-98	Mar-98	1	250			
Sys Development Upgrade for Fire Support FY 99	TBD	C/TM	CECOM	Feb-99	Apr-99	4	300			
REMARKS:										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										LOGTECH (6Z8889)	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Other Related Program Elements:											
Program Elements for Code B Items:		Code:											
		A											
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	41.6	1.6	5.0	7.5	13.0	3.2	4.4	4.3	4.4	4.5	0.0	89.4	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	41.6	1.6	5.0	7.5	13.0	3.2	4.4	4.3	4.4	4.5	0.0	89.4	
Initial Spares													
Total Proc Cost	41.6	1.6	5.0	7.5	13.0	3.2	4.4	4.3	4.4	4.5	0.0	89.4	
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:** LOGTECH or Automatic Identification Technology (AIT) provides state-of-the-art technologies that offer rapid and accurate data capture, retrieval and transmission. The technology includes various radio frequency barcode scanning devices, barcode label and page printers, and various data carrier devices with associated readers and writers. The data carrier devices include optical laser cards, integrated circuit chip cards (smart cards) and PC memory cards. AIT devices are used with automated logistics systems to facilitate and expedite property receiving, distribution, storage, inventory management and accountability. AIT is used throughout the Army at the wholesale (AMC) and retail (STAMIS) supply levels and in automated maintenance, personnel and transportation systems, where rapid and accurate source data collection is required. The AIT contract establishes a baseline of AIT devices for use throughout DoD and ensures standardization and interoperability of this equipment among the Services.

**JUSTIFICATION:** FY99 fieldings support Depot Systems Command, Major Commands and Army STAMIS with AIT and Radio Frequency Portable Data Collection Device (RFPDCCD) Networks and printers. Funds will continue these essential initiatives, satisfying logistics requirements in the tactical and nontactical arenas.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: LOGTECH (B28889)		Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99	
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each
A		1887	VAR	VAR	4249	VAR	VAR	1126	VAR
RFPDCD Networks **	A	2948	67	44	3036	69	44	2112	48
Automated Manifest System	A	192	48	4	192	48	4		
<b>TOTAL</b>		<b>5027</b>			<b>7477</b>			<b>3238</b>	
* AIT Peripherals unit cost varies by item									
** Radio Frequency Portable Data Collection Device (RFPDCD)									

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics					Date: February 1998				
Equipment					LOGTECH (BZ8889)				
WBS Cost Elements:					P-1 Line Item Nomenclature:				
Fiscal Years					Weapon System Type:				
AIT Peripherals *									
FY 96									
FY 97									
FY 98									
FY 99									
RFPDCD Networks **									
FY 96									
FY 97									
FY 98									
FY 99									
Automated Manifest System									
FY 96									
FY 97									
REMARKS:									
* AIT Peripherals unit cost varies by item configuration									
** Radio Frequency Portable Data Collection Device (RFPDCD)									
CAC-WOO - CECOM Acquisition Center - Washington Operations Office									



Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: TC AIMS II (BZ8900)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
Hardware consisting of: COMPAQ 4500 servers, Pentium-based desktop workstations and Pentium-based laptops													
TOTAL													
* Configurations vary by site													

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998									
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics		Weapon System Type:		P-1 Line Item Nomenclature:															
Equipment		Contract Method and Type		Location of PCO		Award Date		Date of First Delivery		QTY Each		Unit Cost \$000		Specs Avail Now?		Date Revisn Avail		RFP Issue Date	
WBS Cost Elements: Fiscal Years																			
Hardware consisting of: COMPAQ 4500 servers, Pentium-based desktop workstations and Pentium-based laptops FY 98		TBS		CAC-WOO		Mar-98 Jun-98 Dec-98		Jun-98 Sep-98 Mar-99		VAR		VAR		YES					
FY 99		TBS		CAC-WOO						VAR		VAR		YES					
* Configurations vary by site																			
REMARKS: CAC-WOO - CECOM ACQUISITION CENTER - WASHINGTON OPERATIONS OFFICE																			



Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										GUN LAYING AND POS SYS (GLPS) (A300000)	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Other Related Program Elements:											
Program Elements for Code B Items:		Code:											
		A											
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog		
Proc Qty					126	107	128	133			494		
Gross Cost	0.0	0.0	0.0	5.8	11.8	10.8	13.5	12.1	0.0	0.0	54.0		
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	0.0	5.8	11.8	10.8	13.5	12.1	0.0	0.0	54.0		
Initial Spares													
Total Proc Cost	0.0	0.0	0.0	5.8	11.8	10.8	13.5	12.1	0.0	0.0	54.0		
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION: The Gun Laying and Positioning System (GLPS) will be a modular, lightweight, cost effective Non-Developmental Item (NDI) that will give each towed and self-propelled non-Paladin firing battery autonomous positioning and directional capability. The GLPS will rapidly self-locate and determine azimuth/deflection and position (Universal Transverse Mercator (UTM) coordinates and altitude) of each howitzer from one centrally located orienting station. The GLPS will consist of a tripod mounted gyroscope integrated with an electronic digital optical instrument, eye-safe laser rangefinder, and transport case(s). Use of the GLPS also requires the AN/PSN-11 Precision Lightweight Global Positioning System (GPS) Receiver (PLGR).

JUSTIFICATION: This system will decrease the time required to survey and lay a howitzer battery from 2 hours to 14 minutes. The GLPS will displace one of the two Position and Azimuth Determining Systems (PADS) and the associated PADS crew within each Field Artillery Battalion. The FY99 funding is a continuation of FY97-98 Warfighter Rapid Acquisition Program (WRAP) production of Test Articles and Operational Prototypes. FY99 funding will buy the initial quantity of GLPS to be fielded to the active Army and National Guard as a Type Classified-Standard weapon system. Procurement and fielding of the 66 GLPS to be purchased with FY99 funds will facilitate displacement of 11 Position and Azimuth Determining Systems (PADS) and 22 PADS crew personnel.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: GUN LAYING AND POS SYS (GLPS) (A30000)			Weapon System Type:			Date: February 1998		
ID	CD	OPA Cost Elements	FY 96			FY 97			FY 98			FY 99		
			TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
1.		Hardware							5555	64	87	10332	126	82
2.		Engineering Support (In-House)							58			384		
3.		Quality Support (ARDEC)							42			262		
4.		Logistics Support							164			318		
5.		First Destination Transportation							5			102		
6.		Total Package Fielding/New Equip Trng										383		
TOTAL									5824			11781		

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature: GUN LAYING AND POS SYS (GLPS) (A30000)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
1. Hardware FY 98	Leica Technologies, Inc. Leesburg, VA	SS/FFP	ACALA	Jun-98	Sep-99	64	87	Yes	No	
FY 99	Leica Technologies, Inc. Leesburg, VA	SS/FFP	ACALA	Feb-99	Mar-00	126	82	Yes	No	
REMARKS:										







Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												ISYSCON EQUIPMENT (BX0007)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code:													
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog		
Proc Qty													
Gross Cost		12.8	2.7	10.3	34.2	16.0	26.5	10.7	3.0		116.2		
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)		12.8	2.7	10.3	34.2	16.0	26.5	10.7	3.0		116.2		
Initial Spares													
Total Proc Cost		12.8	2.7	10.3	34.2	16.0	26.5	10.7	3.0		116.2		
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:**

Integrated System Control (ISYSCON) will provide an automated method for managing the tactical communication network, establish an interface with each technical control facility and other non-signal management in the ATCCS architecture, and enable automation assisted configuration and management of a dynamic battlefield. The major functions of ISYSCON are network planning, signal command and control, spectrum management, wide area network management and COMSEC management. ISYSCON has been involved in TFXI and DIVXXI experiments and requirements definition is ongoing for implementation in the tactical internet for FY 98 and FY 99. The ISYSCON program serves as a baseline foundation to support the network management initiatives tied to or part of the evolution to the Digitized Division/Corps and the Warfighter Information Network (WIN) architecture. ISYSCON program provides the network management for WIN-Terrestrial (WIN-T) and solves significant shortcomings in today's network management. ISYSCON will serve as the foundation on which to build the WIN-T network and will serve as the Army baseline for joint communications management. ISYSCON production will utilize the Echelons Corps and Below (ECB) and downsize Echelons Above Corps (EAC) hardware as a building block baseline towards fulfilling the objective design.

**JUSTIFICATION:**

FY 99 funds will be used in support of the objective ISYSCON configurations and will consist of new government/contractor off-the-shelf hardware and software. FY 99 supports ISYSCON systems required for First Digitized Division (FDD) and Corps (FDC). Seamless network management from theater to the objective digitized division is a necessary requirement for the Warfighter Information Network/information dominance. Reference MEMO from DCSOPS, DAMO-FDC, Subject: Warfighter Information Network (WIN) Network Management/Information Dominance requirements dtd 10 Jan 97.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: ISYSCON EQUIPMENT (BX0007)			Weapon System Type:			Date: February 1998		
OPA Cost Elements			FY 96			FY 97			FY 98			FY 99		
ID	CD		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
B		1. Govt Furnished Equipment/Hardware												
		2. Engineering Support												
		a. Contractor	738	4	185									
		b. Government	1600			608			3949			29862	56	533
		3. Production Software	828			600			512			556		
		4. Battlefield Spectrum Management (BSM)	9600			666			927			1103		
		5. Test/Training							4945			1500		
		6. ECP				800						597		
		7. Spares										557		
		<b>TOTAL</b>	<b>12766</b>			<b>2674</b>			<b>10333</b>			<b>34175</b>		



Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature: ISYSCON EQUIPMENT (BX0007)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
FY 1996 Hardware	GTE Taunton, MA	FP/OPT	CECOM	May-96	Oct-96	4	185	YES		
FY 1997 GFE/Hardware	GTE Taunton, MA	GFE	CECOM	Nov-97	May-98	N/A		YES		
FY 1998 Production Software	GTE Raleigh, NC	FP/OPT	CECOM	Nov-97	Sep-98	N/A		YES		
FY 1998 GFE/Hardware	GTE Raleigh, NC	GFE	CECOM	Feb-98	Sep-98	N/A		YES		
FY 1999 GFE/Hardware	GTE Taunton, MA	FP/OPT	CECOM	Nov-98	Jul-99	56	533	YES		
2. Battlefield Spectrum Management (BSM)										
FY 1999	IITRI Annapolis, MD	FP/OPT	CECOM	Oct-98	Sep-99	N/A		YES		
<b>REMARKS:</b> FY 96-97 reflects costs associated with the completion of Phase 1 Integration Systems. FY 98-99 Supports Fielding to FDD/FDC in FY 00/04 FY 99 reflects costs to procure delta equip for a combination of (V)1, (V)2 & (V)3 Configurations, Non-Recurring Engineering, and Integration of systems.										





[illegible]

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												MANEUVER CONTROL SYSTEM (MCS) (BA9320)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code: B													
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty	1798		123	81	138	96	332	484			104	3156	
Gross Cost	218.3		18.6	13.0		13.0	40.1	52.9	0.6	0.6	54.0	411.3	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	218.3		18.6	13.0		13.0	40.1	52.9	0.6	0.6	54.0	411.3	
Initial Spares	46.0		0.2	0.8				5.1		2.5	4.5	59.0	
Total Proc Cost	264.3		18.7	13.9		13.0	40.1	58.0	0.6	3.1	58.5	470.3	
Flyaway U/C	0.2		0.1	0.1		0.1	0.1	0.1			0.1		
Wpn Sys Proc U/C	0.2		.2	.2		.2	.1	.1			.1		

**DESCRIPTION:** The Maneuver Control System (MCS) is an automated tactical Command, Control and Communications (C3) system which provides a network of computer terminals to process combat information for battle staffs. It provides automated assistance in the collection, storage, review and display of information to support the commander's decision process. Both text and map graphics are provided to the user. It enables operation staffs, G3/S3, to process and distribute estimates, plans, orders and reports. The system is designed to operate with existing and planned communications networks. This is an evolutionary development including planned system improvements to insure increasing Command and Control (C2) capabilities and infusion of current technology while, in the interim, providing an essential core capability.

**JUSTIFICATION:**

MCS is the key to the commander's situational awareness and common picture of the battlefield. It will incorporate all fire support, intelligence, air defense, logistics, and maneuver information concerning friendly and enemy forces, and then enable the commander to effectively make decisions, issue orders, allocate resources, and fight the battle.

The MCS Common Hardware/Software (CHS) equipment is needed to equip the active force with an automated C2 capability. This program is an integral part of the Army Tactical Command and Control System (ATCCS) and is critical to the successful operation of the overall system. This generation of computers will incorporate advances in technology and achieve Life Cycle Cost savings due of commonality to support.

FY99 funding of \$13.0M will be required to purchase equipment for 4th Infantry Division, Special Operations C2 elements and HQ XVIII ABN Corps.

Exhibit P-5. Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: MANEUVER CONTROL SYSTEM (MCS) (BA9320)		Weapon System Type:		Date: February 1998	
OPA Cost Elements	ID	FY 96		FY 97		FY 98		FY 99	
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each
1. HARDWARE	B								
a. AN/TYQ-45 High Capacity Unit (HCU)									
HCU V1									
HCU V2			123	69					
b. Test Hardware		8518			4058	81		3591	53
c. Test Spares		1989							
d. Training Hardware		1108							
2488									
PERIPHERALS									
e. Large Screen Display (LSD)									
f. Tactical Scanner (TACSCAN)									
g. Large Scale Plotter (LSP)									
2. PROJECT MANAGEMENT ADMIN.					1000			612	41
3. TEST								347	31
a. Test Transportation		185						142	31
b. Test Support		1755						1623	
4. FIELDING									
a. New Equipment Training Team (NETT)					1706			1923	
b. 1st Destination Transportation					13			617	
c. Total Package Fielding (TPF)					118			368	
5. INTERIM CONTRACTOR SUPPORT (ICS)					265			2697	
6. OTHER CHS-2 Support Cost Includes:		2528			5851			1113	
MCS Data, Licenses, Common ATCCS									
Logistics & Maintenance Requirements,									
ECV's									
NOTE 1: FY98-01 Quantities are have been									
adjusted to reflect current program planning									
NOTE 2: 1st Destination Transportation									
includes SICPS Transportation									
TOTAL		18571			13011			13033	



### Exhibit P-40, Budget Item Justification Sheet

Date: February 1998

P-1 Item Nomenclature: STAMIS TACTICAL COMPUTERS (STACOMP) (W000800)

Appropriation / Budget Activity/Serial No:  
 OTHER PROCUREMENT / 2 / Communications and Electronics Equipment

Other Related Program Elements:

Program Elements for Code B Items:	Code:	FY 1996 - FY 2006										Total Prog	
		Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		To Complete
Proc Qty													
Gross Cost		290.0	12.9	28.8	42.4	35.1	48.2	29.8	32.7	53.1	56.0	0.0	629.1
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)		290.0	12.9	28.8	42.4	35.1	48.2	29.8	32.7	53.1	56.0	0.0	629.1
Initial Spares													
Total Proc Cost		290.0	12.9	28.8	42.4	35.1	48.2	29.8	32.7	53.1	56.0	0.0	629.1
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:** STAMIS Tactical Computers (STACOMP) are a group of Commercial Off-the-Shelf (COTS) computer systems supporting STAMIS tactical computer requirements for the US Army. These systems, used by soldiers on the battlefield to support Combat Service Support (CSS) missions at all levels, are transportable and user friendly. STACOMP COTS supports the following STAMIS: Standard Army Retail Supply System (SARSS), Standard Army Ammunition System (SAAS), Standard Army Maintenance System (SAMS), Department Army Movements Management System Redesign (DAMMS-R), Unit Level Logistics System (ULLS), Global Combat Support System-Army (GCSS-Army) formerly called Integrated Combat Service Support System (ICSS) and Standard Installation Division Personnel System-3 (SIDPERS-3).

GCSS-Army Phase I encompasses the logistics STAMIS (SARSS, SAAS, SAMS and ULLS). In March 1997, The Major Automated Information Systems Review Committee (MAISRC) granted Milestone 0/II approval to GCSS-Army, formerly called Integrated Combat Service Support System (ICSS3), Phase 1 and Milestone 0 approval to GCSS-Army Phases 2 and 3. GCSS-Army will be the business/tactical automation enabler for the Army CSS mission area and will constitute the Army portion of the Global Combat Support System. Development and fielding of GCSS-Army will follow an incremental acquisition strategy combining development with incremental fielding of capability packages. GCSS-Army will be fielded in three phases. Phase 1 will include functionality of existing logistics STAMIS and is scheduled for Milestone III approval in 4QFY99 and will complete fielding FY03. Phase 2 will integrate the logistics wholesale and retail levels of CSS while Phase 3 will include joint functions. Phase 2 will conclude in FY04 and Phase 3 in FY06. Beginning in FY98, all STACOMP COTS hardware purchased for logistics STAMIS will support GCSS-Army functionalities.

**JUSTIFICATION:** FY99 funds procure COTS microcomputers for SAMS, ULLS, GCSS-Army, SIDPERS and STAMIS support systems.



Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: STAMIS TACTICAL COMPUTERS (STACOMP) (W00800)			Weapon System Type:			Date: February 1998		
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99					
ID	CD		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
COTS Microcomputers* for:														
DAMMS -R			286	VAR	VAR	1226	VAR	VAR	933	VAR	VAR			
SAAS			2257	VAR	VAR	3096	VAR	VAR	3559	VAR	VAR			
SAMS			2089	VAR	VAR	6915	VAR	VAR	4109	VAR	VAR	14319	VAR	VAR
SARSS			7287	VAR	VAR	6451	VAR	VAR	1815	VAR	VAR			
SPBS-R			1508	VAR	VAR									
ULLS			7268	VAR	VAR	10525	VAR	VAR	9046	VAR	VAR	7666	VAR	VAR
GCSS-Army									500	VAR	VAR	14454	VAR	VAR
SIDPERS-3			5532	VAR	VAR	9209	VAR	VAR	14425	VAR	VAR	11627	VAR	VAR
STAMIS Support			2612	VAR	VAR	4985	VAR	VAR	677	VAR	VAR	182	VAR	VAR
TOTAL			28839			42407			35064			48248		
* Configurations vary by user requirements and site														

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					Date: February 1998				
WBS Cost Elements: Fiscal Years					P-1 Line Item Nomenclature: STAMIS TACTICAL COMPUTERS (STACOMP) (W00800)				
COTS Microcomputers* for:									
DAMMS -R									
FY 96									
FY 97									
FY 98									
SAAS									
FY 96									
FY 97									
FY 98									
SAMS									
FY 96									
FY 97									
FY 98									
FY 99									
REMARKS:									

1) Configurations (quantity and unit cost) vary by user requirement

2) Standard Requirements Type Contracts will be used to procure these COTS microcomputers such as: STAMIS Computer Contract II (SCC II), Supermini, PC-1

3) Contractors: Sysorex Information Systems, Inc., Fairfax, VA; Planning Research Corp. (PRC), McLean, VA; Government Technology Services, Inc. (GTSI), Chantilly, VA; Zenith Data Systems (ZDS), Herndon, VA

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998				
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics			Weapon System Type:		P-1 Line Item Nomenclature:										
Equipment			Contractor and Location		Location of PCO		Award Date		STAMIS TACTICAL COMPUTERS (STACOMP) (W00800)						
WBS Cost Elements: Fiscal Years					Contract Method and Type				Date of First Delivery		QTY	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
SARSS			VAR		C/FP		VAR		Dec-95		VAR	VAR	YES		
FY 96			VAR		C/FP		VAR		Dec-96		VAR	VAR	YES		
FY 97									Apr-97		VAR	VAR	YES		
FY 98			VAR		C/FP		VAR		Jun-97		VAR	VAR	YES		
									Apr-98		VAR	VAR	YES		
									Jun-98		VAR	VAR	YES		
SPBS-R			VAR		C/FP		VAR		Dec-95		VAR	VAR	YES		
FY 96											VAR	VAR	YES		
ULLS			VAR		C/FP		VAR		Dec-95		VAR	VAR	YES		
FY 96			VAR		C/FP		VAR		Jan-97		VAR	VAR	YES		
FY 97									Mar-97		VAR	VAR	YES		
									Jun-97		VAR	VAR	YES		
									Aug-97		VAR	VAR	YES		
FY 98			VAR		C/FP		VAR		Aug-97		VAR	VAR	YES		
									Oct-97		VAR	VAR	YES		
FY 99			VAR		C/FP		VAR		Dec-97		VAR	VAR	YES		
									Mar-98		VAR	VAR	YES		
									May-98		VAR	VAR	YES		
									Jul-98		VAR	VAR	YES		
									Feb-99		VAR	VAR	YES		
GCSS-Army			VAR		C/FP		VAR		Jun-98		VAR	VAR	YES		
FY 98			VAR		C/FP		VAR		Aug-98		VAR	VAR	YES		
FY 99			VAR		C/FP		VAR		Aug-98		VAR	VAR	YES		
									VAR *		VAR	VAR	YES		

REMARKS:

- 1) Configurations (quantity and unit cost) vary by user requirement
- 2) Standard Requirements Type Contracts will be used to procure these COTS microcomputers such as: STAMIS Computer Contract II (SCC II), Supermini, PC-1
- 3) Contractors: Sisorax Information Systems, Inc., Fairfax, VA; Planning Research Corp. (PRC), McLean, VA; Government Technology Services, Inc. (GTSI), Chantilly, VA; Zenith Data Systems (ZDS), Herndon, VA

\* Multiple award and delivery dates throughout the FY. COTS will continue to be purchased for legacy STAMIS with the GCSS-Army software being added as it becomes available to replace the legacy STAMIS software.

Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					Weapon System Type:		P-1 Line Item Nomenclature: STAMIS TACTICAL COMPUTERS (STACOMP) (W00800)				Date: February 1998	
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
SIDPERS-3 FY 96		VAR		C/FP	VAR	Apr-96 May-96 Jul-96 Jan-97 Jun-97	Aug-96 Jun-96 Dec-96 Apr-97 Sep-97	VAR	VAR	YES		
FY 97		VAR		C/FP	VAR			VAR	VAR	YES		
FY 98		VAR		C/FP	VAR	Mar-98 Jun-98 Aug-98 Dec-98 Mar-99 Jun-99 Aug-99	May-98 Aug-98 Oct-98 Feb-99 May-99 Aug-99 Oct-99	VAR	VAR	YES		
FY 99		VAR		C/FP	VAR			VAR	VAR	YES		
STAMIS Support FY 96		VAR		C/FP	VAR	Nov-95 Apr-96 Mar-97 Aug-97 Mar-98 Mar-99	Feb-96 Jul-96 May-97 Oct-97 Jun-98 Jun-99	VAR	VAR	YES		
FY 97		VAR		C/FP	VAR			VAR	VAR	YES		
FY 98		VAR		C/FP	VAR			VAR	VAR	YES		
FY 99		VAR		C/FP	VAR			VAR	VAR	YES		
REMARKS:												
1) Configurations (quantity and unit cost) vary by user requirement 2) Standard Requirements Type Contracts will be used to procure these COTS microcomputers such as: STAMIS Computer Contract II (SCC II), Supermini, PC-1 3) Contractors: Sysorex Information Systems, Inc., Fairfax, VA; Planning Research Corp. (PRC), McLean, VA; Government Technology Services, Inc. (GTSI), Chantilly, VA; Zenith Data Systems (ZDS), Herndon, VA												

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												February 1998
P-1 Item Nomenclature: STANDARD INTEGRATED CMD POST SYSTEM (BZ9962)												
Program Elements for Code B Items:												
Code:												Other Related Program Elements:
Proc Qty	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Gross Cost	0.0	7.0	30.9	39.8	32.6	26.8	31.3	35.5	12.3	11.7	0.0	227.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	7.0	30.9	39.8	32.6	26.8	31.3	35.5	12.3	11.7	0.0	227.9
Initial Spares												
Total Proc Cost	0.0	7.0	30.9	39.8	32.6	26.8	31.3	35.5	12.3	11.7	0.0	227.9
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This program includes the procurement of five command post variants, each designed to accommodate the various Battlefield Functional Areas of the Army Battle Command System (ABCS). These include the Army Tactical Command and Control System (ATCCS), the Advanced Field Artillery Tactical Data System (AFATDS), the Command Service Support Control System (CSSCS), the Forward Area Air Defense Command and Control System (FAADC2), the Extended Air Defense Command and Control System (EAD), and the Integrated Meteorological System (IMETS). The five command post variants are:

- (1) A Tent Command Post (CP) that consists of a lightweight aluminum frame, interchangeable fabric wall sections, fabric roof, floors and liners, work tables, mapboards, and light set. The Tent CP can be complexed to other tents and to other SICPS variants via an interface wall.
- (2) A Rigid Wall Shelter (RWS) CP mounted on the Heavy High Mobility Multipurpose Vehicle (HMMWV) Shelter Carrier consisting of an on-board generator, power conversion/distribution system, environmental control unit, collective chemical protection, signal and power pass-through panels, antenna mounts, equipment mounts, equipment racks to accommodate two ABCS workstations, operator seats, a vehicle intercom system and a 10 meter Quick Erect Antenna Mast (QEAM).
- (3) Conversion Kits for the M577 Track Vehicle consisting of equipment racks for two ABCS workstations, power and signal panels, tent interface panel, operator seats, antenna mounts, stowage provisions, an updated Auxiliary Power Unit (APU), a vehicular intercom system, a power distribution system, a 10 meter QEAM, and a signal/data wiring module. The converted M577 has been designated the M1068 Track CP.

Exhibit P-40C Budget Item Justification Sheet				Date
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature		February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				STANDARD INTEGRATED CMD POST SYSTEM (BZ9962)
Program Elements for Code B Items	Code	Other Related Program Elements		
<p>(4) Installation Kits for the 5-Ton Expandable Van (E-Van) consisting of racks for up to six ABCS workstations, centralized communications rack, communications patch panel, signal entry panel, antenna mounts, mapboards, a vehicular intercom system, a 10 meter QEAM, updated power distribution wiring and signal/dat wiring.</p> <p>(5) Installation Kits for the Soft-Top HHMMWV consisting of equipment racks for up to two ABCS workstations, communications patch panel module, antenna mounts, operator work surface, data patching module, white canvas liners, blackout curtains, an a 10 meter QEAM.</p> <p>JUSTIFICATIONS: The Standard Integrated Command Post System (SICPS) is essential to the Army's Force XXI efforts. It provides the mobile and environmentally protected platform for the ABCS which is a major part of the Army Chief of Staff's effort to digitize the battlefield. Procurement of each of the above variants is required to support the fielding of the noted ABCS nodes with the Army's Common Hardware/Software Command and Control equipment.</p>				

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: STANDARD INTEGRATED CMD POST SYSTEM (BZ9962)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		ID	FY 96		FY 97		FY 98		FY 99				
		CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	TotalCost \$000	Qty Each	UnitCost \$000
Tent Command Post		A	1784	385	5	855	180	5			1540	308	5
PM/Administration Engineering Support									10 50				
SUBTOTAL			1784			855			60		1540		
Rigid Wall Shelter		A	15297	131	117	6100	50	122					
PM/Administration Engineering Support			1562			879			388		360		
Interim Contractor Support			1290			720			1325		410		
Other			1258			1200			1100				
SUBTOTAL			25252			8899			2813		770		
M1068 Conversion Kit		A				7576	62	122	21750	174	18375	140	131
PM/Administration Engineering Support			250 500			652 569			1490 2335		470 300		
SUBTOTAL			750			8797			25575		19145		
5-Ton E-Van Installation Kit		A	2413	20	121	6310	54	117			1820	13	140
PM/Administration Engineering Support			300			258			490		255		
Interim Contractor Support						172 535			625 716		330		
SUBTOTAL			2713			7275			1831		2405		





Exhibit P-5a, Budget Procurement History and Planning											
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:		P-1 Line Item Nomenclature: STANDARD INTEGRATED CMD POST SYSTEM (BZ9982)					
WBS Cost Elements:		Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Fiscal Years											
Tent Command Post											
FY 96		Camel Manuf. Lafollette, Tenn.	C/Option	ATCOM	Jun-96	Dec-96	65	5			
FY 96		Camel Manuf. Lafollette, Tenn.	C/Option	ATCOM	Feb-97	Aug-97	320	5			
FY 97		Camel Manuf. Lafollette, Tenn.	C/Option	ATCOM	Feb-97	Aug-97	180	5			
FY 99		Camel Manuf. Lafollette, Tenn.	C/Option	ATCOM	Feb-99	Aug-99	308	5	YES		
Rigid Wall Shelter											
FY 96		Gichner Manuf. Dallastown, Pa.	C/Option	CECOM	Sep-96	Mar-98	131	117			
FY 97		Gichner Manuf. Dallastown, Pa.	C/Option	CECOM	Mar-97	Sep-98	50	122			
M1068 Conversion Kit											
FY 97		United Defense San Jose, Ca.	C/Option	TACOM	Nov-97	Aug-98	62	122			
FY 98		United Defense San Jose, Ca.	C/Option	TACOM	Mar-98	Dec-98	174	125	YES		
FY 99		United Defense San Jose, Ca.	C/Option	TACOM	Mar-99	Dec-99	140	131	YES		
5-Ton E-Van Installation Kit											
FY 96		Tobyhanna Army Depot	MIPR	CECOM	Sep-96	Jul-97	12	121			
FY 96		Tobyhanna Army Depot	MIPR	CECOM	Feb-97	Dec-97	8	117			
FY 97		Tobyhanna Army Depot	MIPR	CECOM	Feb-97	Dec-97	54	117			
FY 99		Tobyhanna Army Depot	MIPR	CECOM	Mar-99	Jan-00	13	140	YES		
Soft Top HHMMWV Installation Kit											
FY 99		Tobyhanna Army Depot	MIPR	CECOM	Jan-99	Oct-99	45	50	YES		
REMARKS:											







Exhibit P-40, Budget Item Justification Sheet											
Appropriation / Budget Activity/Serial No:										Date:	February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										P-1 Item Nomenclature:	
Program Elements for Code B Items:										ARMY TRAINING XXI MODERNIZATION (BE4169)	
Other Related Program Elements:											
Code: A											
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty											
Gross Cost	0.0	0.0	0.0	24.5	32.6	15.7	39.2	44.4	13.9	0.0	170.3
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc (P-1)	0.0	0.0	0.0	24.5	32.6	15.7	39.2	44.4	13.9	0.0	170.3
Initial Spares											
Total Proc Cost	0.0	0.0	0.0	24.5	32.6	15.7	39.2	44.4	13.9	0.0	170.3
Flyaway U/C											
Wpn Sys Proc U/C											

**DESCRIPTION:** Army Training XXI Modernization uses information technologies to enhance the planning, preparation and execution of individual, (Warrior XXI), collective (Warfighter XXI), and new equipment training (Warmod XXI). It will electronically link Army's master instructors/subject matter experts to soldiers anywhere in the world, to improve performance and create a virtual classroom. Army Training XXI will evaluate evolving training technologies developed by industry/academia for deployment as they enter the commercial main stream. Army Training XXI Modernization will leverage existing and future national communications infrastructure. Infrastructure acquired will be based on industry standards and compliant with the Joint Technical Architecture (JTA) and Defense Information Infrastructure Common Operating Environment (DII COE), where applicable. This will help assure not only compatibility with other military services but also that commercial, state, and other resources can be leveraged to achieve cost effective solutions to support the Total Army. Specific initiatives include Distance Learning/Classroom XXI (DL/CR XXI), Army Training Digital Library, Automated Instructional Management System - Redesign (AIMS-R), and Standard Army Training System (SATS).

**Warrior XXI -** Warrior XXI initiatives include Distance Learning (DL) and Classroom XXI (CR XXI). This effort is critical to sustain soldier/unit proficiency. The Army is and will remain primarily CONUS-based with disbursed smaller units strategically placed worldwide. For the foreseeable future, the Army will perform a far larger array of missions than in the past. Meanwhile, personnel reductions will make it increasingly difficult to provide Mobile Training Teams and New Equipment Training Teams to meet training requirements. DL and CR XXI provide infrastructure to implement a cost effective solution to this problem, aiding Army to maintain acceptable outyear readiness levels despite massive resource reductions. DL/CR XXI supported training enhancements will help reduce the current backlog of over 90K soldiers that require MOS training (47K of whose schooling is not currently programmed for). It will reduce the cost of these efforts by 20% or more. Army can significantly increase levels of MOS qualification, hence readiness, with standardized, Total Army courseware delivered through DL technology. Aggressive implementation of the Army Distance Learning Plan (ADLP) will also help compensate for the impact on the outyear training backlog of the redesign of National Guard divisions and continuing

<p align="center"><b>Exhibit P-40C Budget Item Justification Sheet</b></p>		<p>Date</p> <p align="center">February 1998</p>
<p>Appropriation / Budget Activity/Serial No.</p> <p align="center">OTHER PROCUREMENT / 2 / Communications and Electronics Equipment</p>	<p>P-1 Item Nomenclature</p> <p align="center">ARMY TRAINING XXI MODERNIZATION (BE4169)</p>	
<p>Program Elements for Code B Items</p>	<p>Code</p> <p align="center">A</p>	<p>Other Related Program Elements</p>
<p>decreases in overall Army resource levels. DL will reduce resident training requirements and soldiers will spend less time in the training base and more time in units, thereby increasing readiness. DL and CR XXI provide the infrastructure needed to achieve these goals. Without this investment, Army schools will be unable to export the expertise and standardization provided by master instructors and subject matter experts; the full benefits of Total Army courseware already updated or currently being updated will not be realized; soldiers will not be able to receive training where and when needed; and the problem of training backlog will be exacerbated.</p> <p>DL/CR XXI infrastructure will deliver standardized training to Active (AC) and Reserve (RC) Component soldiers world-wide. DL provides infrastructure for soldiers to train at or near their assigned station, in lieu of resident training at Army schools. CR XXI provides infrastructure at sites collocated with Army schools. Operational implementation of DL/CR XXI infrastructure is carefully phased to coincide with development of updated Army courseware, taking into account the number of soldiers needing training, types of training needed, and where training is needed to maximize the return on the DL/CR XXI investment. Tasks supported include conducting training, receiving training, developing training, and storing digitized training materials.</p> <p>The DL/CR XXI acquisition strategy will follow a multi-phase implementation approach to achieve these objectives. FY98/99 investments will provide an interim capability. It will support and enhance existing Army training capabilities based primarily on a synchronous training model to provide an immediate return on investment. Concurrently, Army will team with industry and academia to develop an overarching functional and technical architecture to support the evolution of the ADLP into the objective Army training model. This model will be based on an optimized mix of synchronous and asynchronous learning techniques. Beginning in FY00, Army will begin acquiring DL/CR XXI infrastructure to both enhance capabilities provided in FY98/99 and to support development/acquisition of learning tools based on the objective Army training model. This investment will leverage advances in information technology and learning theory to make training more available/affordable for the total force and improve overall readiness.</p> <p><b>Warfighter XXI</b> - Warfighter XXI initiatives include the Army Training Digital Library (ATDL), the Automated Instructional Management System - Redesign (AIMS-R), and the Standard Army Training System (SATS). Warfighter XXI initiatives support DL/CR XXI through the Warfighter XXI Campaign Plan. The Warfighter XXI Campaign Plan provides a strategic vision and an integrated plan for how the future Army will train battle staff and collective tasks. Result will be an automated training management system designed to enhance the planning, resourcing, execution, and assessment of battle-focused training for the unit and unit commander. The ATDL stores the data and provides unit and institutional commanders access to data necessary to plan, resource, execute, and assess training.</p> <p><b>JUSTIFICATION:</b> FY99 funds allow acquisition of interim Warrior and Warrior XXI infrastructure to augment and enhance existing Army training capabilities based primarily on a synchronous training model. This allows an immediate return on investment while design efforts on the objective Army training model are completed.</p>		

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: ARMY TRAINING XX1 MODERNIZATION (BE4169)				Weapon System Type:		Date: February 1998				
ID	OPA Cost Elements	FY 96		FY 97		FY 98		FY 99		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	
		TotalCost \$000	Qty Each	TotalCost \$000	Qty Each	TotalCost \$000	Qty Each	TotalCost \$000	Qty Each							
	Warrior XXI ATM Gateway (Router/Multiplexer) Classrooms (Type A) (Desktop PCs, Audio/Video Equipment and Comm Infrastructure) Classrooms (Type B) (Data/Process Servers, desktop/laptop PCs, Audio/Video Equip, & Comm Infrastructure) Remote Classrooms (Data/Process Servers, desktop/laptop PCs, Audio/Video Equip, & Comm Infrastructure) Digital Training Access Centers (Type A) (Data/Process Servers, desktop PCs, Printers, and Comm Infrastructure) Digital Training Access Centers (Type B) (Data/Process Servers, desktop PCs, Printers, and Comm Infrastructure) Management Center (Data Servers,desktop PCs, and Comm Infrastructure) National Guard DL Network Connectivity (Communications Infrastructure) Training Development Suite (Desktop PCs, Printers, and Comm Infrastructure) Warfighter XXI (Data/Video Servers, desktop PCs, printers, scanners, and Communications infrastructure)															
										1785	21	85	3780	45	84	
										11826	64	185	6895	38	181	
										936	6	156	459	3	153	
													14746	73	202	
										2376	24	99	282	3	94	
													990	15	66	
										82	1	82				
										3470	10	347				
										567	21	27	52	2	26	
										3455	VAR	VAR	5431	VAR	VAR	
										24497			32635			
	TOTAL															

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics					Date: February 1998				
WBS Cost Elements: Fiscal Years					P-1 Line Item Nomenclature: ARMY TRAINING XX1 MODERNIZATION (BE4169)				
Equipment					Weapon System Type:				
Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
TBS TBS	GSA GSA	CACWOO CACWOO	Feb-98 Jan-99	May-98 Apr-99	21 45	85 84	YES YES		
TBS TBS	GSA GSA	CACWOO CACWOO	Feb-98 Jan-99	May-98 Apr-99	64 38	185 181	YES YES		
TBS TBS	GSA GSA	CACWOO CACWOO	Feb-98 Jan-99	May-98 Apr-99	6 3	156 153	YES YES		
TBS	GSA	CACWOO	Jan-99	Apr-99	73	202	YES		
TBS TBS	GSA GSA	CACWOO CACWOO	Feb-98 Jan-99	May-98 Apr-99	24 3	99 94	YES YES		
TBS	GSA	CACWOO	Jan-99	Apr-99	15	66	YES		
TBS	GSA	CACWOO	Feb-98	May-98	1	82	YES		
TBS	GSA	CACWOO	Feb-98	May-98	10	347	YES		
REMARKS:									



Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998									
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics		Weapon System Type:		P-1 Line Item Nomenclature: ARMY TRAINING XX1 MODERNIZATION (BE4169)															
Equipment		Contract Method and Type		Location of PCO		Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date							
WBS Cost Elements: Fiscal Years		Contractor and Location																	
Training Development Suite FY 98 FY 99		TBS TBS		GSA GSA		CACWOO CACWOO		Feb-98 Jan-99		May-98 Apr-99		21 2		27 26		YES YES			
Warfighter XXI FY 98 FY 99		TBS TBS		GSA GSA		TRADOC TRADOC		Feb-98 Jan-99		May-98 Apr-99		VAR VAR		VAR VAR		YES YES			
REMARKS:																			

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										AUTOMATED DATA PROCESSING EQUIP (BD3000)	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Other Related Program Elements:											
Program Elements for Code B Items:		Code:											
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	1548.2	97.4	114.5	138.4	129.4	130.7	124.2	138.7	129.8	130.8	0.0	2682.1	
Less P/Y Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	1548.2	97.4	114.5	138.4	129.4	130.7	124.2	138.7	129.8	130.8	0.0	2682.1	
Initial Spares													
Total Proc Cost	1548.2	97.4	114.5	138.4	129.4	130.7	124.2	138.7	129.8	130.8	0.0	2682.1	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION: This budget line supports the Army's sustaining base automation systems. The Army's primary sustaining base information management (IM) goal is to provide information services for the sustainment and readiness of the forces at minimum cost.

JUSTIFICATION: The current sustaining base automation infrastructure is largely overstressed and reaching technological obsolescence. A stable modernization program is essential to maintain efficiency, increase productivity, and reduce operation and maintenance costs through technological advancement. As the Army modernizes its warfighting forces for the twenty-first century, it must leverage the use of automation technology to streamline and modernize its management information systems to support C4I for the Warrior and power projection strategies, split base operations, and downsized force structures. The effectiveness of the CONUS split base operations strategy to perform as the rear area for deployed forces as well as the mobilization, force projection, and redeployment platform is increasingly dependent upon use of state-of-the-art automation technology to provide responsive combat service support to the warfighter in the areas of command and control, logistics, personnel, finance, transportation, medical and other sustaining base functions.

(ID CODE A)

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: AUTOMATED DATA PROCESSING EQUIP (BD3000)		Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99	
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each
OPTICAL DIGITAL EQUIP		2801			1310			2679	
ACQN INFORMATION MANAGEMENT (AIM)		97			1357				
NG REFORM INITIATIVE - TITLE XI		6341							
RESERVE HQ AUTOMATION		816			835			792	
SUSTAINING BASE INFO SVC (SBIS)		14518			22359			7000	
STRATEGIC LOGISTICS PROGRAM (SLP)		14667			20333			22523	
HQ MANAGEMENT INFORMATION		5390			5060			3685	
JOINT COMPUTR AIDED ACQ & LOG SPT					21911			34212	
ADPE FOR NON TAC MGMT INFO SYS					225			245	
MACOM AUTOMATION SYSTEMS		31166			18527			21312	
LOGISTICS AUTOMATION SYSTEMS		4841			9528			5983	
MEDICAL AUTOMATION SYSTEMS		1781			1614			2978	
PERSONNEL AUTOMATION SYSTEMS		31646			34874			30537	
HIGH PERFORMANCE COMPUTING		454			419			421	
TOTAL		114518		138352		129412		130712	

Exhibit P-40, Budget Item Justification Sheet											Date:	February 1998	
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:									OPTICAL DIGITAL EQUIP (BD3956)		
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Other Related Program Elements:											
Program Elements for Code B Items:		Code:											
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	26.9	1.8	2.8	1.3	2.7	2.9	2.2	2.7	2.2	2.8	0.0	48.3	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	26.9	1.8	2.8	1.3	2.7	2.9	2.2	2.7	2.2	2.8	0.0	48.3	
Initial Spares													
Total Proc Cost	26.9	1.8	2.8	1.3	2.7	2.9	2.2	2.7	2.2	2.8	0.0	48.3	
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:** This budget line supports high payoff initiatives to replace obsolete, inefficient records management systems with state-of-the-art optical digital equipment and other electronic recordkeeping systems. This technology will reduce operations and maintenance costs and improve the mission effectiveness and productivity of records managers throughout the Army.

**PERSONNEL ELECTRONIC RECORD MANAGEMENT SYSTEMS (PERMS) :** PERMS provides an electronic system for the maintenance of military personnel files at headquarters level Army Personnel Records Management Centers for Active Army, Army National Guard, and Army Reserve. PERMS, has and will continue to convert current paper and microfiche personnel files to digital images. PERMS will allow for selective retrieval of individual files, groups of files or individual documents within these files. Retrieval selections can be individually tailored to the needs of the soldier, their personnel managers and selection/promotion boards.

**DOCUMENT IMAGING PROCESSING SYSTEMS:** This budget line ensures Army compliance with Code of Federal Regulations (CFR) 36 and 41 for economy and efficiency in documenting Army business. This program fields replacement for obsolete equipment at 63 installations which reproduce and distribute Standard Army Management Information System (STAMIS) reports (Personnel, Finance, Logistical, Medical, etc.) and Base Operating Reports on microfiche. This program processes 8 billion pages per year, thus avoiding \$100 million in paper costs. It is the key support for on going imaging applications, including costs for software licenses.

**JUSTIFICATION:**

**PERMS:** FY 99 funds support reengineering and upgrade of PERMS hardware, remote access and Year 2000 upgrades.

**DOCUMENT IMAGING PROCESSING SYSTEMS:** FY 99 funds procure document imaging and joint multi-media information processing systems. Funds will procure hardware, software and the peripherals necessary to provide various installation data processing centers with the capability to link with existing Defense Mega Center technology. This program will maximize utilization of the Mega Centers and avoid significant potential operation and maintenance costs in the future.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: OPTICAL DIGITAL EQUIP (BD3956)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Standard Army Computer Output Microform (STACOM)													
STACOM Upgrade	A	1167	VAR	VAR									
Document Imaging Processing System	A				845	VAR	VAR	848	VAR	VAR	845	VAR	VAR
PERMS	A	1634	VAR	VAR	465	VAR	VAR	1831	VAR	VAR	2026	VAR	VAR

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature: OPTICAL DIGITAL EQUIP (BD3956)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
STACOM Upgrade FY 96	Kodak	OPTION	USAISSAA	Feb-96	May-96	VAR	VAR	YES	NO	
Document Imaging Processing System FY 96	Kajax, Inc	C/FP	FEDSIM	Dec-95	Jan-96	VAR	VAR	YES	NO	
FY 97	AINS	C/FP	FEDSIM	Dec-96	Jan-97	VAR	VAR	YES	NO	
FY 98	AINS	C/FP	FEDSIM	Dec-97	Jan-98	VAR	VAR	YES	NO	
FY 99	AINS	C/FP	FEDSIM	Dec-98	Jan-99	VAR	VAR	YES	NO	
PERMS FY 96	PRC	C/FP	USAISSAA	Jul-96	Aug-96	VAR	VAR	YES	NO	
FY 97	PRC	C/FP	CAC-WOO	Feb-97	May-97	VAR	VAR	YES	NO	
FY 98	PRC	C/FP	FEDSIM	Jan-98	Apr-98	VAR	VAR	YES	NO	
FY 99	TBS	C/FP	TBS	Dec-98	Mar-99	VAR	VAR	YES	NO	
<b>REMARKS:</b> Kodak - Eastman Kodak, Rochester, NY AINS - Advanced Information Network Systems, Inc., Rockville, MD USAISSAA - United States Army Information Systems Selection and Acquisition Agency FEDSIM - Federal Systems Integration Management Center PRC - Planning Research Corp. - McLean, VA CAC - WOO - CECOM Acquisition Center - Washington Operations Office VAR - Unit costs and quantities vary by configuration. Kajax Engineering Inc., Arlington, VA										

Exhibit P-40, Budget Item Justification Sheet												Date: February 1998	
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												STRATEGIC LOGISTICS PROGRAM (SLP) (BD7000)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code:													
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	27.7	23.3	14.7	20.3	22.5	23.2	22.8	20.7	21.3	21.8	0.0	218.3	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	27.7	23.3	14.7	20.3	22.5	23.2	22.8	20.7	21.3	21.8	0.0	218.3	
Initial Spares													
Total Proc Cost	27.7	23.3	14.7	20.3	22.5	23.2	22.8	20.7	21.3	21.8	0.0	218.3	
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:** This budget line supports the Total Distribution Program (TDP), an initiative to correct deficiencies in the distribution of materiel, equipment, personnel replacements, and mail, which occurred during Operation Desert Shield/Storm, and to lay the foundation supporting Force XXI and Log Advanced Warfighting Exercises (AWE). Lessons learned during Desert Shield/Storm, revealed that the materiel distribution system suffered from chronic problems. Multiple duplicate orders for supplies and spare parts caused backlogs at ports in CONUS and in the theater of operations. Over 25,000 containers, out of the 40,000 shipped, had to be opened to determine contents. The resulting shortage of spare parts and supplies in the theater area caused otherwise repairable equipment to be declined. The purpose of the TDP initiative is to develop an effective distribution pipeline with Total Asset Visibility (TAV) from initial shipping point to destination. Critical corrective actions include development and fielding of communications capability for logistics, the use of emerging technologies to enhance visibility and materiel accountability, upgrade of critical distribution management systems, fielding and maintenance of the required distribution infrastructure, as well as doctrinal changes in distribution management. The Vice Chief of Staff, Army (VCSA) approved Total Distribution Action Plan (TDAP) has identified 140 problem areas with milestones for implementing corrective actions. The TDP supports "Improving Logistics Support in Combat Zones" and the Army Strategic Logistics Plan.

**JUSTIFICATION:** FY 99 funding develops communications capability for transmission of logistics information both within a theater of operations and between the theater and the sustaining base. Work is underway to interface the Tactical Packet Network (TPN), which operates in the tactical environment, with the communications architecture of sustaining base systems, enabling the warfighter to pass data directly to the sustaining base. During the Gulf War, lack of such communications capability was a critical deficiency, which hampered the distribution process. In addition, programmed funds will support the procurement of Automatic Identification Technology (AIT) such as Radio Frequency (RF) Tags to provide source data automation. RF Tags are used for "inside the -box" visibility of container contents and to track critical materiel throughout the distribution pipeline.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: STRATEGIC LOGISTICS PROGRAM (SLP) (BD7000)			Weapon System Type:		Date: February 1998			
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99					
ID	CD		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
		TPN/DDN Interface Mobile Gateway Van/ DCS Entry Point/Installation Fac	610	VAR	VAR									
	A	Packet Switch Upgrade/AN TTC 39A to 39E SSS Program	2000	1	2000	6300	VAR	VAR	8700	*5	VAR			
	A	CSS Automation Integration Comm Hardware & Software	2680	55	49	5500	124	44	5320	*120	VAR	6000	124	48
	A	Automation ID Technology RF Tags/Interrogators/RF Links/Solar Panels	9377	VAR	VAR	7333	VAR	VAR	7303	VAR	VAR	17191	VAR	VAR
		Warfighter Rapid Acquisition Program (WRAP) RF Data Tags				1200	30	40	1200	30	40			
TOTAL			14667			20333			22523			23191		



Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					Date: February 1998				
WBS Cost Elements: Fiscal Years					P-1 Line Item Nomenclature: STRATEGIC LOGISTICS PROGRAM (SLP) (BD7000)				
Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date	
Contractor and Location									
TPN/DDN Interface Mobile Gateway Van FY 96	VAR****	VAR**	VAR**	VAR	VAR	YES	NO		
Packet Switches Upgrade FY 96	GTE	Sep-96	Oct-96	1	2000	YES	NO		
FY 97	GTE	Jun-97	Aug-97	4	VAR*	YES	NO		
FY 98	GTE	Dec-97	Feb-98	5	VAR*	YES	NO		
FY 99	GTE	Dec-98	Feb-99	2	VAR*	YES	NO		
CSS Automation Integration Comm Hardware & Software FY 96	VAR***								
FY 97	SYSOREX, Inc.	Jun-96	Aug-96	55	VAR*	YES	NO		
FY 98	TBS	May-97	Jul-97	124	VAR*	YES	NO		
FY 99	TBS	May-98	Jul-98	120	VAR*	YES	NO		
		May-99	Jul-99	124	VAR*	YES	NO		
Automation ID Technology RF Tags/Interrogators/RF Links/Solar/Panels FY 96	Savi Tech	Apr-96	May-96	VAR	VAR*	YES	NO		
FY 97	Savi Tech	Apr-97	May-97	VAR	VAR*	YES	NO		
FY 98	TBS	Mar-98	Apr-98	VAR	VAR*	YES	NO		
FY 99	TBS	Mar-99	Apr-99	VAR	VAR*	YES	NO		
WRAP RF Data Tags FY97	Savi Tech	Feb-98	Jul-98	30	40	YES	NO		
FY98	Savi Tech	Aug-98	Nov-98	30	40	YES	NO		
REMARKS: GTE - Taunton, MA Standard Army Savi Tech - Mountain View, CA VAR - Unit costs and quantities vary by configuration. VAR* - Qty & unit cost vary with location Contracts vary depending on components purchased. VAR** - Multiple contracts awarded/Delivered throughout the year. VAR*** - Data Communications Enterprise, Olney, MD; Sysorex Inc. - Fairfax, VA and Motorola - Tempe, AZ .....									
PEO STAMIS-Program Executive Office - Management Information Systems SYSOREX, Inc. - Fairfax, VA									

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature:										RESERVE HQ AUTOMATION (BE4000)	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Other Related Program Elements:											
Program Elements for Code B Items:		Code:											
Proc Qty	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Gross Cost	12.4	0.9	0.8	0.8	0.8	0.8	1.9	1.9	1.9	1.9	0.0	24.3	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	12.4	0.9	0.8	0.8	0.8	0.8	1.9	1.9	1.9	1.9	0.0	24.3	
Initial Spares													
Total Proc Cost	12.4	0.9	0.8	0.8	0.8	0.8	1.9	1.9	1.9	1.9	0.0	24.3	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION: USA RESERVE INFORMATION MANAGEMENT MASTER PLAN (USAR IMMP): USAR IMMP provides automation support for Headquarters, US Army Reserve Personnel Center (ARPERCEN) missions, to include providing for Total Army mobilization with trained personnel through command and control, providing life cycle personnel management for Army reserve soldiers and providing personnel services and administrative support to Army Veterans. The Total Army Personnel Data Base (TAPDB) Reserve is the "Top-Of-The-System" central repository of Reserve Personnel data in support of the Army's Personnel Enterprise System. ARPERCEN is responsible for providing the data necessary for the implementation of the Reserve Component Automation System (RCAS), developing interim interface systems that support phased fielding of RCAS, and developing end-state interfaces between TAPDB-Reserve and RCAS.

JUSTIFICATION: FY 99 funds support the US Army Reserve Transformation which calls for improved economies and efficiencies in USAR Personnel Management. This plan calls for increased automation support to accomplish a reduction of 413 personnel (25% reduction) in conjunction with the establishment of a new Reserve Personnel Command. Program funding will be key in meeting this goal, continuing the migration of Reserve Business Processes to a client server environment. This migration includes the integration of imaging (Personnel Electronic Records Management System (PERMS)) and networked workstations, in support of personnel and mobilization systems critical to warfighting, accountability, interoperability and veterans.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: RESERVE HQ AUTOMATION (BE4000)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
USA Reserve Information Management Master Plan (USARIMMP):													
Personnel Enterprise System-Automation (PES-A)		816	1	816	835	1	835	815	1	815	792	1	792
TOTAL		816			835			815			792		

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature: RESERVE HQ AUTOMATION (BE4000)							
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date	
USA Reserve Information Management Master Plan (USARIMMP):											
Personnel Enterprise System											
FY 96	EDS	C/FP	GSA	Jun-96	Aug-96	1	816	YES	NO		
FY 97	EDS	C/FP	GSA	Feb-97	Jul-97	1	835	YES	NO		
FY 98	EDS	C/FP	GSA	Feb-98	Mar-98	1	815	YES	NO		
FY 99	EDS	C/FP	GSA	Feb-99	Mar-99	1	792	YES	NO		
<b>REMARKS:</b> EDS - Electronic Data Systems - Reston, VA GSA - General Services Administration, Heartland Region, Kansas City, MO											

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												ADPE FOR NON TAC MGMT INFO SYS (BE4150)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	330.6	0.0	0.0	0.2	0.2	0.3	0.0	0.0	0.0	0.0	0.0	331.3	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	330.6	0.0	0.0	0.2	0.2	0.3	0.0	0.0	0.0	0.0	0.0	331.3	
Initial Spares													
Total Proc Cost	330.6	0.0	0.0	0.2	0.2	0.3	0.0	0.0	0.0	0.0	0.0	331.3	
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:** This budget line supports the Scaled Model Signature Measurement Facility (SMSMFAC) within the Intelligence and Security Command (INSCOM). The SMSMFAC laboratory develops signature information that is vital to the development, testing, fielding, and reprogramming of present and future smart sensor and munitions systems.

**JUSTIFICATION:** FY 99 funds procure equipment for a target stage, a target stage controller, a High Frequency (HF) spectrum analyzer, microwave intermediate frequency stages, heterodyne systems and a carbon dioxide laser system.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: ADPE FOR NON TAC MGMT INFO SYS (BE4150)			Weapon System Type:			Date: February 1998		
OPA Cost Elements			FY 96		FY 97		FY 98		FY 99					
ID	CD		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
Scaled Model Signature Measurement Facility (SMSMFAC)		A				225	1	225	245	1	245	255	1	255
TOTAL						225			245			255		

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature: ADPE FOR NON TAC MGMT INFO SYS (BE4150)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Scaled Model Signature Measurement Facility (SMSMFAC) FY 97 FY 98 FY 99	University of MA University of MA TBS	Option Option Option	INSCOM INSCOM INSCOM	Mar-97 Dec-97 Dec-98	Apr-97 Jan-98 Jan-99	1 1 1	225 245 255	YES YES YES	NO NO NO	
REMARKS: University of MA, Lowell Research Foundation, Lowell, MA										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										HIGH PERFORMANCE COMPUTING (BE4152)	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Other Related Program Elements:											
Program Elements for Code B Items:		Code:											
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	89.7	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.0	93.7	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	89.7	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.0	93.7	
Initial Spares													
Total Proc Cost	89.7	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.0	93.7	
Flyaway U/C													
Wpn Sys Proc U/C													
<p><b>DESCRIPTION:</b> This program satisfies critical needs for advanced computational technology for Army scientists, engineers and analysts, and represents the leading edge of high speed processing. This capability is not available through other technology and is designed to solve problems which cannot be resolved in other ways. The program provides for access to Supercomputing resources consisting of networked Supercomputers at various CONUS locations. Supercomputer systems are required to satisfy critical research and development missions in combat and material development programs. Significant advances in supercomputer technology have provided increases in both speed and memory. This is essential for performing fully time-dependent, three-dimensional computations and simulations directed at major new weapon designs or battlefield management. The resultant use of this advanced high-performance computing technology is the generation of very large data sets. In order to effectively and efficiently process this data, robotic mass storage systems are required. Examples of the major Army applications best suited to supercomputer technology include battlefield management, modeling/simulation, weapons systems design, terrain analysis, mechanical design (structural and dynamic vehicles), nuclear survivability, and material dynamics and composition. Supercomputers are contributing to efforts for high leverage, high payoff programs which exploit technological advances, reduce logistics burden, lower acquisition and O&amp;M costs, and provide required lethality at reduced weight and volume.</p> <p><b>JUSTIFICATION:</b> FY 99 funds provide local site and Army specific automation infrastructure in order to allow for the effective use of the Army Research Lab (ARL), which is one of four designated DOD Major Shared Resource Centers (MSRCs). Funding will procure mass storage, work stations, and network connectivity for Army users of the ARL MSRC and its associated Distributed Centers. The DOD High Performance Computing Modernization Program (HPCMP) is currently spending over \$200M on the Centers but is not providing any funding for service specific infrastructure. Funds will leverage these assets being procured through the DOD HPCMP and capitalize on leading edge technology in multi-terabyte mass storage systems</p>													



Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: HIGH PERFORMANCE COMPUTING (BE4152)		Weapon System Type:		Date: February 1998		
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99		
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
Mass Storage Upgrade	A							419	1	419
Robotic Mass Storage Upgrade	A	454	1	454						
I/O Technology Upgrade	A				419	1	419	421	1	421
TOTAL		454			419			421		419

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics		Weapon System Type:		P-1 Line Item Nomenclature: HIGH PERFORMANCE COMPUTING (BE4152)						
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Fiscal Years										
Mass Storage Upgrade FY 99	TBS	C/FP	ARL	Jan-99	Mar-99	1	419	YES	NO	
Robotic Mass Storage Upgrade FY 96	GMSI	C/FP	ARL	Jan-96	Mar-96	1	454	YES	NO	
I/O Technology Upgrade FY 97	Hi-Tech	C/FP	ARL	Jan-97	Mar-97	1	419	YES	NO	
FY 98	Storage Tech	C/FP	ARL	Jan-98	Mar-98	1	421	YES	NO	
<b>REMARKS:</b> ARL - Army Research Laboratory GMSI - Global Management Systems Inc. - Bethesda, MD Hi-Tech International - Red Wing, MN Storage Tech - Parsippany, NY										

Exhibit P-40, Budget Item Justification Sheet:												Date:
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		HQ MANAGEMENT INFORMATION SYSTEMS (BE4161)										
Program Elements for Code B Items:		Code:		Other Related Program Elements:								
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	99.6	8.5	5.4	5.1	3.7	5.7	5.8	5.8	6.0	6.1	0.0	151.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	99.6	8.5	5.4	5.1	3.7	5.7	5.8	5.8	6.0	6.1	0.0	151.7
Initial Spares												
Total Proc Cost	99.6	8.5	5.4	5.1	3.7	5.7	5.8	5.8	6.0	6.1	0.0	151.7
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This budget line includes a number of information systems that support Army headquarters worldwide. These systems are included in Army's Modernization Plan.

JUSTIFICATION:

HQDA ADPE: Provides for information management support to HQDA across the entire IM Spectrum. It includes initiatives approved by a joint Office Secretary of Army/Army Staff (OSAA/ARSTAF) senior planning group. FY99 funds buy IM support including file servers, Local Area Networks (LANs), multipurpose workstations, stand-alone end-user devices, other peripherals and decision support systems. These funds will also purchase a correspondence tracking system, which will provide a flexible, integrated, automated system to support the control and management of actions, correspondence, filed documentation, executive requests and internal actions that will satisfy the needs of organizations within the HQDA staff. Future funding will also procure equipment for the USA Concepts Analysis Agency ADP Modernization Project, which will enable the Army's principal theater-level study agency to perform quick reaction analyses for the Army Staff, MACOMs and OCONUS commands. These acquisitions will continue to improve the productivity of the senior leadership and their staffs located within the National Capital Area through improved access to functional and decision-level information. These decisions impact force structure and modernization, logistics, personnel, finance and every functional area of the Army.

LEGAL AUTOMATION ARMY-WIDE SYSTEM (LAAWS): LAAWS is an approved STAMIS for Army law offices. It supports automated research and preparation of legal advice to Army commanders, form brigade through HQDA level, on the target selections, treatment and classification of refugees and prisoners of war, military operations in occupied areas, international treaties, Law of War, etc., and assists individual soldiers with legal readiness matters. LAAWS produces different types of legal documents, including wills and powers-of attorney. It supports automated legal research, electronic mail (through DDN connectivity), the processing and management of claims for/against the Army and the electronic distribution of legal materials. FY99 funds provide for the acquisition of LANs, CD-ROM drives, software and other peripheral equipment required to support Army law offices' automation standardization and development of an Armywide legal resources network. Automation of law offices is a critical step required to offset the effects of the Army drawdown on legal personnel. It will enable the legal staff to continue protecting Army's interests in civil/environmental litigation, procurement fraud, and other legal claims areas. This effort is made even more urgent by today's military involvement in multinational peacekeeping/humanitarian efforts.

<b>Exhibit P-40C Budget Item Justification Sheet</b>		Date February 1998
Appropriation / Budget Activity/Serial No. OTHER PROCUREMENT / 2 / Communications and Electronics Equipment	P-1 Item Nomenclature HQ MANAGEMENT INFORMATION SYSTEMS (BE4161)	
Program Elements for Code B Items Code	Other Related Program Elements	

(Continuation)

**ARMY MODEL IMPROVEMENT PROGRAM (AMIP):** AMIP is designed to improve the Army's analytic capability by providing a consistent basis to support decision making affecting force structure, doctrine, and procurement. AMIP directly supports Principle 10, Exploit Modeling and Simulations, of the Army Enterprise Strategy. By using state-of-the-art hardware and new software technology, AMIP will develop an integrated family of computerized combined arms combat models with supporting data bases. These models will support studies, research, and training. Component models will be interfaced and tested for validity and consistency of representations and results. The FY99 funds will procure state-of-the-art computer simulation and graphics equipment/software. The equipment will be used by numerous analysis agencies, MACOMs, and national laboratories to develop more efficient, cost effective, realistic scenarios and real-time simulations of complex combat and associated processes for analysis of data. The achievement of these goals will provide readily understood, valid, and more responsive input into the decision making process affecting weapons procurement, force development, force deployment, tactics, sustainment, and enhance the overall warfighting capability of the Army. The funds will also provide for the upgrading of existing simulations/support equipment and software.

**HOUSING OPERATIONS MANAGEMENT SYSTEM (HOMES):** HOMES is a standard management system designed to provide efficient processing of soldiers' housing needs. It consists of five subsystems: Family Housing Assignments and Terminations (A&T) for assignments to government housing, Community Homefinding Relocation Referral Services (CHRRS) for help in locating off-post housing, Billing (BIL)/Lodging supports transient billets, Fisher houses, guesthouses, BOOs & SBEQs, Furnishings Management (FURN), and Headquarters Support (HQ HOMES) increases availability of housing services, housing utilization, housing inventory control, control of Basic Allowance for Quarters (BAQ), upward reporting needs, and elimination of the housing questionnaire survey process. The five subsystems are fully deployed worldwide. HOMES has been identified as a critical element of the Army Family Action Plan to improve the level of housing services to soldiers and families. The system operates on INTEL 310/320's, AT&T 3B2, and HP9000 minicomputers, located in the local housing offices. FY99 funds will be used to purchase replacement equipment for the A&T/CHRRS/SA subsystem. The equipment included will be computers, printers, high speed batch printers, and communications equipments. HOMES is a centrally managed system, where all software is developed and all equipment is identified, tested and approved centrally. Since initial fielding of HOMES, Army Installation Housing Offices have become dependent on the system to fulfill their mission-management of Army housing inventory and its military occupants. The current reassignment of Army units and concomitant relocation of personnel is too large an activity to be managed without an automated information system. An equipment failure effectively closes a housing office operation. The re-engineering focuses on improving efficiency of operation and support for Commercial Venture Initiatives (CVI). The A&T/CHRRS/FURN modules are being re-engineered to accommodate these procedures and to test new concepts of operations. The re-engineered system will be Windows NT based and conform with the directions promulgated in the Army Technical Architecture (ATA) and the DoD Technical Architecture For Information Management (TAFIM). This architecture will support the integration of the HOMES system with local office automation.

**STRATEGIC C2 FACILITIES:** Provides funds for the Army Operations Center (AOC) and the Command and Control Support Agency. Funding is necessary to maintain state-of-the-art information management capability for the senior leadership of the Army and to obtain a completely integrated, multi-level security system with full connectivity to DOD's Global Command and Control System (GCCS). The system currently includes an Information Processing System with a variety of work-stations; a Local Area Network (LAN - over 250 users); an Automated Message Handling System (AMHS); and a Briefing Display and Support System (BDS), and application tools to manage Army readiness, mobilization, and deployment data. A fully integrated desktop with user friendly tools and access to most Army and DOD databases is a key AOC goal. The system supports every crisis action involving the Army and allows the senior Army leadership and ARSTAF action officers to quickly access, manipulate, display, brief and send command and control directives and mission essential information. The system supports day-to-day operations within the Army Operations Directorate, as well as all crisis actions and JCS exercises. FY 99 acquisitions include critical components (flat screen displays, and LAN hubs, routers, concentrators and development of new software) for the LAN and BDS to improve system reliability, enhance system management capabilities, and ensure complete compatibility with AGCCS, GCCS and other joint staff initiatives.

**SITE R INTEGRATION PROGRAM (SRIP):** The Army, as the Executive Agent for the Alternate Joint Communication Center (AJCC) at Site R, has responsibility to maintain and replace as needed the AJCC Information Management Infrastructure, and ensure the integration of new and improved systems planned for the AJCC. The AJCC includes communications facilities at Site C, Site RT and the underground facility at Site R and is the home to the Alternate National Military Command Center (ANMCC). FY-99 funds will support the complete integration of an alternate Communication Path from Site R to the facility at Site C. This includes engineering, procurement of materials, installation, testing and securing of a Right of Way along public and private properties. Funding will also be used to procure and install a secure I and Area Network (I and AN) to provide Site R access to the Defense Department Secure Internal Network (DIPNET).

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: HQ MANAGEMENT INFORMATION SYSTEMS (BE4161)			Weapon System Type:			Date: February 1998		
OPA			FY 96			FY 97			FY 98			FY 99		
Cost Elements			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
HQDA ADPE	A		1320	VAR	VAR	1276	VAR	VAR	1351	VAR	VAR	1396	VAR	VAR
LAAWS	A		582	VAR	VAR	268	VAR	VAR	425	VAR	VAR	590	VAR	VAR
AMIP	A		1314	VAR	VAR	1241	VAR	VAR				653	VAR	VAR
HOMES	A		343	VAR	VAR	481	VAR	VAR	451	VAR	VAR	505	VAR	VAR
Strategic C2 Facilities	A		1424	VAR	VAR	771	VAR	VAR	766	VAR	VAR	687	VAR	VAR
Site R Integration Program	A		407	VAR	VAR	1023	VAR	VAR	692	VAR	VAR	1864	VAR	VAR
TOTAL			5390			5060			3685			5695		

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					P-1 Line Item Nomenclature: HQ MANAGEMENT INFORMATION SYSTEMS (BE4161)				
WBS Cost Elements: Fiscal Years					Weapon System Type:				
Contractor and Location		Contract Method and Type		Location of PCO		Award Date		Date of First Delivery	
HQDA ADPE:									
- HQDA Correspondence Tracking System									
FY 96	VAR*	C/FP		DSSW		Apr-96		Jul-96	
FY 97	VAR*	C/FP		DSSW		Sep-97		Dec-97	
FY 98	Eastman Software	C/FP		DSSW		Mar-98		May-98	
FY 99	TBS	C/FP		DSSW		Feb-99		May-99	
- CAA ADP Modernization									
FY 96	VAR**	C/FP		DSSW		Feb-96		May-96	
FY 97	VAR**	C/FP		DSSW		Aug-97		Oct-97	
FY 98	TBS	C/FP		DSSW		Mar-98		Apr-98	
FY 99	TBS	C/FP		DSSW		Feb-99		May-99	
- Defense Message System									
FY 98	TBS	C/FP		DSSW		VAR		VAR	
LAAWS									
- Wide Area Network (WAN)									
FY 96	EDS	C/FP		Ft Belvoir		VAR		VAR	
FY 97	EDS	C/FP		Ft Belvoir		VAR		VAR	
FY 98	EDS	C/FP		Ft Belvoir		VAR		VAR	
FY 99	TBS	C/FP		Ft Belvoir		VAR		VAR	
AMIP									
- Workstation hardware & Software									
FY 96	VAR***	C/FP		VAR****		VAR		VAR	
FY 97	VAR***	C/FP		VAR****		VAR		VAR	
FY 99	VAR***	C/FP		VAR****		VAR		VAR	
REMARKS:									
EDS - Electronic Data Systems - Herndon, VA									
Eastman Software, McLean, VA									
VAR - Unit costs and quantities vary by configuration									
VAR* - Alpha Com - Chantilly, VA; Inline Corp - Vienna, VA;									
PRC - McLean, VA; MicroStar Co, Inc-Jessup, MD									
VAR** - Global Management Support - Bethesda, MD;									
International Business Network - Vienna, VA									
VAR*** - SUN - Vienna, VA; Silicon Graphics - Silver Springs, MD;									
Falcon-Landover, MD; IBN - Bethesda, MD; Hewlett Packard, MD									
VAR**** - National Simulation Center (NSC), Concepts Analysis Agency (CAA),									
TRADOC Analysis Center (TRAC), USA Material Systems Analysis Activity									
(USAMSA)									

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998		
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics		Weapon System Type:		P-1 Line Item Nomenclature:								
Equipment		Contractor and Location		Location of PCO		Award Date		HQ MANAGEMENT INFORMATION SYSTEMS (BE4161)				
WBS Cost Elements: Fiscal Years				Contract Method and Type				QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
HOMES												
- HP9000 Peripheral Equipment												
FY 96		PRC		C/FP	DCMAO	Jan-96		VAR	VAR	YES	NO	
FY 97		PRC		C/FP	DCMAO	Feb-97		VAR	VAR	YES	NO	
FY 98		PRC		C/FP	DCMAO	Jan-98		VAR	VAR	YES	NO	
FY99		PRC		C/FP	DCMAO	Jan-99		VAR	VAR	YES	NO	
STRATEGIC C2 FACILITIES												
- Briefing Display System (BDS)												
- Security, Admin and Spt Tools												
- Automated Message Handling												
- Data System/Application Management												
- COM/LAN Segment; GCCS Integration												
- LAN Lifecycle Mgmt												
- Matrix Switch												
- Command Center Applications												
- Integration Testing												
- Image Boss Upgrade												
FY 96		JPL/GSA		C/FP	NASA/DSSW	VAR		VAR	VAR	YES	NO	
FY 97		JPL		MIPR	NASA/DSSW	VAR		VAR	VAR	YES	NO	
FY 98		JPL		C/FP	NASA/DSSW	VAR		VAR	VAR	YES	NO	
FY 99		JPL		C/FP	NASA	VAR		VAR	VAR	NO	NO	
<b>REMARKS:</b> DCMAO - Defense Contracting Administration Office PRC - Planning Research Corp - Reston, VA JPL - Jet Propulsion Laboratory, Pasadena, CA NASA - National Aeronautical Space Administration ISEC - Information Systems Engineering Command CECOM - Communications and Electronics Command VAR - Unit costs and quantities vary by configuration.												

Exhibit P-5a, Budget Procurement History and Planning											
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					Weapon System Type:		P-1 Line Item Nomenclature: HQ MANAGEMENT INFORMATION SYSTEMS (BE4161)				
WBS Cost Elements: Fiscal Years		Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
SITE R INTEGRATION PROGRAM - Matrix Switch BOM FY 96		Tobyhanna, PA	MIPR	CECOM	Mar-96	VAR	VAR	VAR	YES	NO	
- DMS LAN FY 96		11th SIG BN, Ft Ritchie, MD	MIPR	ISEC/CECOM	Jun-96	VAR	VAR	VAR	YES	NO	
- DMS Infrastructure FY 97		ISEC/CONUS	MIPR	CECOM/SMC	May-97	Oct-97	1	1023	YES	NO	
- Emergency Action Ctr Upgrade FY 98		TBS	MIPR	CECOM/SMC	Mar-98	Apr-98	VAR	VAR	YES	NO	
- Site C to Site R Alternate Communication Route FY99		TBS	TBS	CECOM/SMC	Mar-99	May-99	1	1200	NO	NO	
- Secure LAN FY99		ISEC/CONUS	MIPR	CECOM/SMC	Apr-99	Jun-99	1	664	NO	NO	
REMARKS: CECOM - Communications and Electronics Command ISEC - Information Systems Engineering Command SMC - Systems Management Center											



Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												MACOM AUTOMATION SYSTEMS (BE4162)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code:													
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog		
Proc Qty													
Gross Cost	72.3	23.8	31.2	18.5	30.7	30.9	41.7	32.2	32.9	0.0	335.5		
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	72.3	23.8	31.2	18.5	30.7	30.9	41.7	32.2	32.9	0.0	335.5		
Initial Spares													
Total Proc Cost	72.3	23.8	31.2	18.5	30.7	30.9	41.7	32.2	32.9	0.0	335.5		
Fiyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:** This budget line supports automation systems requirements of Major Army Commands (MACOMs) and field activities not included in other centrally managed programs. These requirements conform with the Army's Information Management (IM) Architecture and are included in MACOM IM Modernization Plans. Funding has been programmed to accomplish high priority/high payoff initiatives which offer efficiencies and improvements in mission support and reduce operations and maintenance costs. Acquisitions will be accomplished primarily through standard requirements contracts.

**JUSTIFICATION:**

MACOM AUTOMATION SYSTEMS: FY 99 funds support systems modernization/life cycle replacement throughout Forces Command (FORSCOM), US Army Europe (USAREUR), Training and Doctrine Command (TRADOC), Army Materiel Command (AMC), Military District of Washington (MDW), Eighth US Army (EUSA), US Army Pacific (USARPAC), US Army Recruiting Command (USAREC), Army Signal Command (ASC), Army War College (AWC), and Intelligence and Security Command (INSCOM). Acquisitions include hardware, software, networking products, and peripherals that are required for MACOM/end user level systems architecture and the transition to an open systems environment (OSE). These systems perform vital functions throughout the sustaining base, and modernization is essential to accommodate growing information processing requirements with declining manpower resources. Due to increased emphasis on expense/investmer criteria for IM acquisitions, this budget line reflects MACOM funding realignments (OMA/OPA transfers) to ensure investment items are budgeted in the correct appropriation. In addition, OPA funding is necessary to provide life cycle replacement of obsolete information processing equipment (IPE), which will eliminate excessive maintenance costs and facilitate productivity growth through advances in information systems technology, thus streamlining manpower intensive operations. Funding will also support MACOM efforts to reengineer business processes, infrastructure to support leaner organizations, and the total compatibility and interoperability needs of a force projection Army. All acquisitions have or will be supported by MACOM Information Requirements Studies and documentation in the MACOM IM Modernization Plans, all conforming with the Army's IM Architecture.

<b>Exhibit P-40C Budget Item Justification Sheet</b>		Date February 1998	
Appropriation / Budget Activity/Serial No. OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Item Nomenclature MACOM AUTOMATION SYSTEMS (BE4162)	
Program Elements for Code B Items	Code	Other Related Program Elements	
(Continuation)			
<p>           ARMY ELECTRONIC COMMERCE (EC): Army Electronic Commerce synthesizes the benefits of business process re-engineering and the migration from aged paper-based business processes to fully electronic processes. Using streamlined and technically innovative business practices, Army EC unites all functional areas into a cohesive electronic business network. Army EC implements Executive direction for the Federal Government and Defense Services/Agencies to implement Electronic Commerce globally. Army EC complements other Defense-wide efforts such as the Defense Reform, Paperless Acquisition, and the Joint Computer-aided Acquisition and Logistics Support. By conducting business electronically, the Army will be able to expedite normal business transactions, particularly during surges associated with military mobilization. Army EC helps create the digitized power projection platform necessary for the sustainment of the Army's digitized battlefield through electronic commerce with its Industrial Partners. Army EC supports pilot projects as "proof-of-concept" of EC technologies applied to re-engineered business processes. FY99 funds will acquire hardware and software upgrades and communications for implementing Army EC based on business process re-engineering and Army priorities that comply with the Secretary of Defense Directives outlined in the Defense Reform Initiative Report. Implementation will be in coordination with Army functional components, OSD, and the Defense Information Systems Agency (DISA). Acquisitions will include hardware and software to accommodate translating electronic output into formats consistent with Federal Information Processing Standard (FIPS) 161-2 for Electronic Data Interchange, as well as acquisition of other EC technologies that support the Army's transition to a paperless environment.         </p> <p>           ARMY REUSE CENTER (ARC): ARC's mission is to ensure that DOD and Army objectives of reusable, maintainable, and reliable software assets and data models are achieved. This is accomplished through the development, implementation, maintenance, and administration of a total reuse program supporting the entire software development cycle. FY 99 funding expands communications, hardware, software, and communication lines to support the ARC's expanding Army user base. Emphasis will be placed on providing on-line access to Software Development Centers (SDCs), key support activities such as the Computer Science School, and selected PMs (e.g., SBA and RCAS). In addition to expanding the communication requirements, particular attention will be paid to expanding the user interface features such as expert systems and other Artificial Intelligence (AI) applications to assist the user in searching and analyzing the ARC's reusable components. In addition, this funding supports the ARC role in analyzing the Army C4I Technical Architecture and Reuse Technology Assessment effort for DISC4. This effort involves the analysis of twelve Army-wide domains to determine the degree in which each domain is consistent with the C4I technical architecture, including the potential reuse among Army components, development of an Army-wide implementation plan to provide for the systematic migration to the architecture, and execution of the plan in cooperation with DISC4 and various Army-wide components         </p> <p>           ARMY ENTERPRISE ARCHITECTURE (AEA): The AEA directly supports the necessity to address business process improvements, develop interoperable information resources, recommend protocols and standards for information technology and plan an interoperable C4I architecture as identified in the National Defense Authorization Act for FY96. In addition the AEA works directly to establish the information framework to support the FY98-03 Defense Planning Guidance in development of a C4I Surveillance Reconnaissance (C4ISR) Architecture, The Army Plan, FY98-13 objectives and JCS Joint Vision 2010 to win the battlefield information war and dominate maneuver battle. FY 99 funds will provide the resources necessary for the on-going development of the AEA infrastructure and procure hardware, software, and modeling tools necessary to provide both the combat and the material development communities with integrated systems critical to the development of a shared data environment. These funds will target specifically the Systems and Operational Architecture production tools. The objective products include standard data and activity models, and Systems Architecture components for Joint and Echelons-above-Corps (EAC) operations and training. This infrastructure will substantially improve the Army's ability to produce and share dynamic models, based on doctrinally developed static representations of information exchange requirements. These tools are needed to continue the migration of material developers programs (weapons, C4I, and sustainment systems) to the DoD Common Operating Environment. The AEA infrastructure will maintain the Army's significant contribution to the DoD Data Standardization Program with an increased ability to share, reuse, and manage all data products within the Joint Community. Additionally, these funds will provide the tools necessary to develop the synthesis of a live with a virtual environment which will be essential for the C4I community to capitalize on the latest modeling and simulation technology.         </p>			

<b>Exhibit P-40C Budget Item Justification Sheet</b>		Date	February 1998
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		MACOM AUTOMATION SYSTEMS (BE4162)	
Program Elements for Code B Items	Code	Other Related Program Elements	
<p>(Continuation)</p> <p>ARMY WARFIGHTING EXPERIMENT (AWE): Funds support modeling, simulation and Joint Venture analysis. Funds purchase equipment that provide the capability for constructive, virtual and live simulation for examination of warfighting concepts across TRADOC's Doctrine, Training, Leader development, Organization, Materiel focused on Soldiers (DTLOMS). FY 99 funds purchase equipment which will augment current material used for ongoing TRADOC efforts to analyze information operations, design Force XXI divisions and brigades, support Operational/Systems Architecture development, evaluate the impact of Army light forces during deployment, explore ways to improve force projection, and enhance the Army contribution to the joint warfight. TRADOC funding purchases upgraded wide-area network communication devices and critical capabilities to the Joint Virtual Laboratory and Battle Lab/DOD Simulation Centers.</p>			

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: MACOM AUTOMATION SYSTEMS (BE4162)			Weapon System Type:			Date: February 1998		
ID	CD	OPA Cost Elements	FY 96			FY 97			FY 98			FY 99		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
		MACOM Automation Systems:												
	A	- FORSCOM Automation	1811	VAR	VAR	1378	VAR	VAR	2710	VAR	VAR	2599	VAR	VAR
	A	- USAREUR Automation	1254	VAR	VAR	731	VAR	VAR	678	VAR	VAR	791	VAR	VAR
	A	- TRADOC Automation	10092	VAR	VAR	5040	VAR	VAR	3802	VAR	VAR	3656	VAR	VAR
	A	- AMC Automation	3068	VAR	VAR	2512	VAR	VAR	1973	VAR	VAR	2014	VAR	VAR
	A	- MDW Automation	1378	VAR	VAR	251	VAR	VAR	287	VAR	VAR	336	VAR	VAR
	A	- EUSA Automation							295	VAR	VAR	396	VAR	VAR
	A	- USARPAC Automation	733	VAR	VAR	310	VAR	VAR	340	VAR	VAR	395	VAR	VAR
	A	- USAREC Automation	496	VAR	VAR	642	VAR	VAR	579	VAR	VAR	666	VAR	VAR
	A	- Army Signal Command Automation	1918	VAR	VAR	982	VAR	VAR	916	VAR	VAR	833	VAR	VAR
	A	- INSCOM Automation	412	VAR	VAR	126	VAR	VAR	100	VAR	VAR	183	VAR	VAR
	A	- CIDC Automation	853	VAR	VAR	238	VAR	VAR						
	A	- Medical Facility LANS	788	VAR	VAR	636	VAR	VAR						
	A	- RDAISA Automation	236	VAR	VAR	157	VAR	VAR						
	A	- NGB	5800	VAR	VAR									
	A	- AWC Automation	61	VAR	VAR	591	VAR	VAR	121	VAR	VAR	108	VAR	VAR
		<b>SUBTOTAL</b>	<b>28900</b>			<b>13594</b>			<b>11801</b>			<b>11977</b>		
	A	Small Computer Program	283	VAR	VAR	241	VAR	VAR						
	A	Army Electronic Commerce							591	VAR	VAR	10958	VAR	VAR
	A	Army Reuse Center (ARC)	391	VAR	VAR	220	VAR	VAR	500	VAR	VAR	410	VAR	VAR
	A	Army Enterprise Architecture (AEA)				1491	VAR	VAR	1282	VAR	VAR	1407	VAR	VAR
	A	Software Engr Mod Prg (SEMP)	1317	VAR	VAR									
	A	EUCOM Marshall Hall Center				1006	VAR	VAR						
		LAM	275	VAR	VAR									
	A	Army Warfighting Exp (AWE)				975	VAR	VAR	7138	VAR	VAR	5966	VAR	VAR
	A	Logistic Integration Database (LIDB)				1000	VAR	VAR						
		<b>TOTAL</b>	<b>31166</b>			<b>18527</b>			<b>21312</b>			<b>30718</b>		

# Exhibit P-5a, Budget Procurement History and Planning

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics					Date: February 1998				
WBS Cost Elements: Fiscal Years					P-1 Line Item Nomenclature: MACOM AUTOMATION SYSTEMS (BE4162)				
Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
FORSCOM Automation - FORCOM Cmd Data Base - Office/Departmental Local Area Network - FORSCOM Automation Modernization Effort FY 96 FY 97 FY 98 FY 99	Datacom/VAR***								
	Datacom								
	VAR****								
	TBS								
USAREUR Automation - File Server/peripherals - Software - Network Hardware Upgrade FY 96 FY 97 FY 98 FY 99									
TRADOC Automation - TFXI Distributed JANUS - VTT - Classroom XXI - Desktop VTC - IM Infrastructure - ATM - Models and Simulation									
REMARKS: Datacom - Burr Ridge, IL Ameridata - Atlanta GA IBN - New York, NY VAR* - Multiple contracts awarded/Delivered throughout the year. VAR** - MVP - Gainsville, VA; Small Computer Issue Activity - Local; Ray Communications - Bala Cynwyd, PA VAR - Unit costs and quantities vary by configuration. VAR*** Departmental LAN funding was sent to various NG Units and FORSCOM Installations									

VAR\*\*\*\* Ft Ewin Contract Office- CA; GTE Government Systems Corp - Tampa, FL;  
Naval Air Warfare Center, Aviation Division and existing GSA contracts.

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics		Weapon System Type:		P-1 Line Item Nomenclature:					
Equipment		Contractor and Location		Location of PCO		Award Date		Date of First Delivery	
WBS Cost Elements: Fiscal Years		Contract Method and Type		QTY		Unit Cost \$000		Specs Avail Now?	
TRADOC Automation (cont)		GSA/Hughes Trng		GSA/RQT		VAR*		VAR*	
- ADV Sim 2 Concepts		GSA		C/FP		VAR*		VAR*	
- IMMI		GSA		C/FP		Feb-98		Mar-98	
- VAWWE		TBS		GSA/RQT		Feb-99		May-99	
FY 96									
FY 97									
FY 98									
FY 99									
AMC Automation									
- Minicomputer System									
- Library System									
- DSI Node (LAM)									
- Departmental Local Area Network									
- PADDS									
- C-DEX									
FY 96		PRC		C/FP		VAR*		VAR*	
FY 97		PRC		C/FP		VAR*		VAR*	
Replace Non-Year 2000 Compliant Hardware									
FY 98		TBS		C/FP		VAR*		VAR*	
FY 99		TBS		C/FP		VAR*		VAR*	
REMARKS:		Hughes Trng - Arlington, TX							
		PRC - Planning Research Corp - Reston, VA							
		MICOM - Missile Command							
		TCA - TRADOC Contracting Agency							
		STRICOM - Simulation, Training and Installation Command							
		ATCOM - Aviation and Troop Command							
		VAR - Unit costs and quantities vary.							
		VAR* - Multiple contracts awarded/Delivered throughout the year.							

Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics					Weapon System Type:		Date: February 1998					
Equipment					P-1 Line Item Nomenclature: MACOM AUTOMATION SYSTEMS (BE4162)							
WBS Cost Elements:		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Fiscal Years												
MDW Automation												
- Host Communication System												
- AFIC												
- Life Cycle Replacements												
- Van Noy Library System												
- LAN Connectivity												
FY 96		VAR**		C/FP	Ft Myer	VAR*	VAR*	VAR	VAR			
FY 97		VAR**		C/FP	Ft Myer	VAR*	VAR*	VAR	VAR	YES	NO	
FY 98		VAR**		C/FP	Ft Myer	VAR*	VAR*	VAR	VAR	YES	NO	
FY 99		VAR**		C/FP	Ft Myer	VAR*	VAR*	VAR	VAR	YES	NO	
EUSA Automation												
- LAN/WAN Upgrade												
FY 98		VAR**		C/FP	USACCK	Jan-98	May-98	1	295	YES	NO	
FY 99		VAR**		C/FP	USACCK	Jan-99	May-99	1	396	YES	NO	
USARPAC Automation												
Departmental Local Area Network												
FY 96		VAR**		C/FP	ISC/Pearl Harbor	May-96	Aug-96	VAR	VAR			
FY 97		TBD		C/FP	ISC/Pearl Harbor	VAR*	VAR*	VAR	VAR	YES	NO	
FY 98		TBD		C/FP	ISC/Pearl Harbor	VAR*	VAR*	VAR	VAR	YES	NO	
FY 99		TBD		C/FP	ISC/Pearl Harbor	VAR*	VAR*	VAR	VAR	YES	NO	
REMARKS: AFIC - Armed Forces Inaugural Committee USACCK - USA Contracting Command Korea (CCK) VAR - Unit costs and quantities vary by configuration. VAR* - Multiple contracts awarded/delivered throughout the year. VAR** - Gateway 2000 - N Sioux City, SD; ASAP Software - Buffalo Grove, IL; Advanced Logic Research - Irvine, CA; Bell Atlantic - Arlington, VA; Lyme Computer Sys - Lyme, NH; Government Tech - Chantilly, VA; PCs Complete - Marlborough, MA; Logcraft Info Sys - Duluth, GA; Sofmart Inc - Exton, PA; Electronic Data Systems - Herndon, VA; Electronics System of Richmond - Arlington, VA; Advanced Computer Co - Rosslyn, VA; Integration Specialist Inc - Alexandria, VA; Campbell Services - Southfield, MI; Sharpe Army Depot - Lathrop, CA; Information System Management Activity. Ft Monmouth, NJ.												

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998			
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					Weapon System Type:					P-1 Line Item Nomenclature: MACOM AUTOMATION SYSTEMS (BE4162)			
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date	
USAREC Automation - Recruiting Computer Systems FY 96 FY 97 FY 98 FY 99		VAR BTG, INC GSA BTG, INC/GSA		C/FP C/FP C/FP C/FP	CECOM CECOM Ft Knox, KY Ft Eustis, VA	VAR* Dec-96 Nov-97 Dec-98	VAR* Jan-97 Feb-98 Feb-98	VAR VAR VAR VAR	VAR VAR VAR VAR	YES YES YES YES	NO NO NO NO		
		VAR** VAR** VAR** VAR**		C/FP C/FP C/FP C/FP	ISC Contracting CECOM CECOM CECOM	VAR* VAR* VAR* VAR*	VAR* VAR* VAR* VAR*	VAR VAR VAR VAR	VAR VAR VAR VAR	YES YES YES YES	NO NO NO NO		
		VAR**		C/FP	ISC Contracting	VAR*	VAR*	VAR	VAR	VAR			
		VAR**/ASCP VAR** TBS TBS		C/FP C/FP C/FP C/FP	ISC Contracting WIES BADEN RCO WIES BADEN RCO WIES BADEN RCO	VAR* VAR* VAR* VAR*	VAR* VAR* VAR* VAR*	VAR VAR VAR VAR	VAR VAR VAR VAR	YES YES YES YES	NO NO NO NO		
REMARKS: ASCP - Army Small Computer Program VAR - Unit costs and quantities vary by configuration. VAR* - Multiple contracts awarded/delivered throughout the year. VAR** - Procurement is accomplished primarily via standard requirements contracts. ATM - Asynchronous Transfer Mode RCO - Regional Contracting Office													



Exhibit P-5a, Budget Procurement History and Planning																					
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics					Date: February 1998																
Equipment					P-1 Line Item Nomenclature: MACOM AUTOMATION SYSTEMS (BE4162)																
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type		Location of PCO		Award Date		Date of First Delivery		QTY Each		Unit Cost \$000		Specs Avail Now?		Date Revisn Avail		RFP Issue Date	
AWC Automation - War College LAN Upgrade FY 96 FY 97 FY 98 FY 99		Wang		C/FP C/FP C/FP C/FP	CECOM CECOM CECOM CECOM	Nov-95 Jul-97 Nov-97 Nov-98	Dec-95 Aug-97 Feb-98 Feb-99	1 VAR 1 1	61 VAR 121 108												
		Wang/LUCENT																			
		Wang																			
		Wang																			
INSCOM Automation - 513th LAN/WAN Systems FY 96 FY 97 FY 98 FY 99		GTE		C/FP C/FP C/FP C/FP	DCMAO Van Nuys DCMAO Van Nuys DCMAO Van Nuys DCMAO Van Nuys	Jan-96 Jan-97 Jan-98 Jan-99	Feb-96 Feb-97 Feb-98 Feb-99	1 1 1 1	412 126 100 183												
		GTE																			
		GTE																			
		GTE																			
CIDC Automation - Local Area Network (hardware/software) FY 96 FY 97		ORACLE		C/FP C/FP	SAM SAM	VAR* VAR*	VAR* VAR*	VAR VAR	VAR VAR												
		ORACLE/SYSOREX																			
Medical Facility LANS - Hardware/Software/Communication Upgrade FY 96 FY 97		Daly Computers		C/FP C/FP C/FP C/FP C/FP C/FP	DSSW DSSW DSSW DSSW CCO-FSH CCO-FSH	Jun-96 Feb-97 Apr-97 Apr-97 May-97 May-97	Jul-96 Mar-97 May-97 May-97 Jun-97 Jun-97	VAR VAR VAR VAR VAR VAR	VAR VAR VAR VAR VAR VAR												
		VAR***																			
		GTSI																			
		CORDANT																			
		ALCATEL NETWORK, SYS																			
		GATEWAY 2000																			
REMARKS:					DSSW - Defense Supply Service Washington SAM - Single Agency Manager CCO-FSH - Central Contracting Office, Ft Sam Houston, TX GTSI - Chantilly, VA CORDANT - Reston, VA Alcatel Network Systems - Richardson, TX Gateway 2000 - North Sioux City, SD																
					Wang - McLean, VA GTE - Chantilly, VA DCMAO - Defense Contract Administration Office Daly Computers - Gathersburg, MD VAR* - Multiple contracts awarded/Delivered throughout the year. VAR - Unit costs and quantities vary by configuration. VAR*** - Procurement is accomplished primarily via standard requirements contracts.																

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998					
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics				Weapon System Type:			P-1 Line Item Nomenclature: MACOM AUTOMATION SYSTEMS (BE4162)			Date:					
Equipment		Contractor and Location		Contract Method and Type		Location of PCO		Award Date		Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
WBS Cost Elements: Fiscal Years															
RDAISA Automation - Building Security System - High Speed Duplicator FY 96 - Network Modernization FY 97		VAR**		C/FP		ISC		Feb-96		Jul-96	VAR	VAR			
		DEC 8A		C/FP		OIS		Mar-97		Apr-97	1	157	YES	NO	
		PRC		C/FP		CECOM		VAR*		VAR*	VAR	VAR			
		DEC & Hewlett Packard		C/FP		CECOM		Feb-97		Apr-97	VAR	VAR			
Small Computer Program - Hardware & Software FY 96 FY 97		TBS		C/FP		CECOM		May-98		Jul-98	VAR	VAR	YES	NO	
		TBS		C/FP		CECOM		Dec-98		Mar-99	VAR	VAR	YES	NO	
Army Electronic Commerce - ADPE/Software/Communication Devices FY 98 FY 99		VAR**		C/FP		Ft Belvoir		VAR*		VAR*	VAR	VAR	YES	NO	
		VAR**		C/FP		Ft Belvoir		VAR*		VAR*	VAR	VAR	YES	NO	
		VAR**		C/FP		Ft Belvoir		VAR*		VAR*	VAR	VAR	YES	NO	
		TBS		C/FP		Ft Belvoir		VAR*		VAR*	VAR	VAR	YES	NO	
Army Reuse Center (ARC) - Hardware/Software Analysis Tools FY 96 FY 97 FY 98 FY 99		VAR**		C/FP		Ft Belvoir		VAR*		VAR*	VAR	VAR	YES	NO	
		VAR**		C/FP		Ft Belvoir		VAR*		VAR*	VAR	VAR	YES	NO	
		VAR**		C/FP		Ft Belvoir		VAR*		VAR*	VAR	VAR	YES	NO	
		TBS		C/FP		Ft Belvoir		VAR*		VAR*	VAR	VAR	YES	NO	
REMARKS: Hewlett Packard - Rockville, MD DEC - Digital Electronics Corp - Landover, MD PRC - Planning Research Corp - Reston, VA VAR* - Multiple contracts awarded/delivered throughout the year. VAR** - DEC - Digital Electronics Corp - Landover, MD; Xerox - Rochester, NY VAR - Unit costs and quantities vary by configuration.															
CECOM - Communications and Electronics Command															

Exhibit P-5a, Budget Procurement History and Planning											
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics				Weapon System Type:		P-1 Line Item Nomenclature: MACOM AUTOMATION SYSTEMS (BE4162)					
WBS Cost Elements: Fiscal Years		Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Software Engr Mod Prg (SEMP) - Net Infrastructure FY 96		VAR**	C/FP	Ft Belvoir	VAR*	VAR*	VAR	VAR	YES	NO	
Army Enterprise Architecture (AEA) FY 97		VAR**	C/FP	Ft Belvoir	VAR*	VAR*	VAR	VAR	YES	NO	
FY 98		VAR**	C/FP	Ft Belvoir	VAR*	VAR*	VAR	VAR	YES	NO	
FY 99		VAR**	C/FP	Ft Belvoir	VAR*	VAR*	VAR	VAR	YES	NO	
EUCOM Marshall Hall Center STUDENT COMPUTER INIATIVE FY 97- Network Infrastructure and Library			C/FP	DAO-CECOM	VAR*	VAR	VAR	VAR	YES	NO	
LAM Automation FY 96 - Force XXI Simulation Center		COLSA/SSDC	C/FP	TRADOC/LAM Office	Jan-96	Mar-96	VAR	VAR			
Army Warfighting Exp (AWE) - Silicon Graphics Onyx Computers - Comm Hardware, Software & Peripherals FY 97		VAR***	C/FP	MICOM	VAR*	VAR*	VAR	VAR	YES	NO	
FY 98		VAR***	C/FP	NAVAIR/Ft Leavenworth	VAR*	VAR*	VAR	VAR	YES	NO	
FY 99		VAR***	C/FP	NAVAIR/Ft Leavenworth	VAR*	VAR*	VAR	VAR	YES	NO	
LOG Integration Data Base - ADPE Hardware FY 97		VAR****	GSA	LOGSA	VAR*	VAR	VAR	VAR	YES	NO	
REMARKS: SSDC - Strategic Space Defense Cmd COLSA, Inc - Huntsville, AL VAR - Unit costs and quantities vary by configuration. Command VAR* - Multiple contracts awarded/Delivered throughout the year. VAR** - Procurement is accomplished primarily via standard requirements contracts. VAR*** - Silicon Graphics - Silver Springs, MD; Various standard requirements contracts. PM - AIS Project Manager. Automated Information Systems. Theater Systems Integration											
LAM - Louisiana Maneuvers ISSAA - Information Systems Selection and Acquisition Agency DAO-CECOM - Defense Accounting Office, Communication & Electronic  GTE - Taunton, MA LOGSA - Logistics Support Agency VAR**** - DLT Solutions-Herdon, VA; Worldwide Technology-St Louis, MO											

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										PERSONNEL AUTOMATION SYSTEMS (BE4164)	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Other Related Program Elements:											
Program Elements for Code B Items:		Code:											
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	97.8	25.8	31.6	34.9	30.5	19.8	24.0	20.9	20.1	20.4	0.0	325.9	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	97.8	25.8	31.6	34.9	30.5	19.8	24.0	20.9	20.1	20.4	0.0	325.9	
Initial Spares													
Total Proc Cost	97.8	25.8	31.6	34.9	30.5	19.8	24.0	20.9	20.1	20.4	0.0	325.9	
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:** This budget line provides for the purchase of automated data processing equipment (ADPE) for management information systems in the personnel community. The systems are part of the approved Personnel System Architecture and the Army's Modernization Plan.

**JUSTIFICATION:**

PERSONNEL ENTERPRISE SYSTEM-AUTOMATION (PES-A): PES-A is an ADP acquisition and redesign/implementation program which ensures that an adequate, modern, state-of-the-art automation infrastructure (automation training, computer platforms, services, telecommunications and productivity/automation tools) is available to support the War Fighter. The PES-A supports all five personnel functions, including recruiting, and is key to execution of day-to-day operations within the Army (e.g., strength accounting, personnel movement, assignment actions, career management, training, recruiting, reenlistment, and mobilization). It is the vehicle by which personnel are managed and information is provided to DOD, and ultimately, to Congress. The PES-A provides interoperability between key data processing installations of the Army's Personnel Community; the Total Army Personnel Command (PERSCOM), Army Reserve Personnel Center (ARPERCEN), Army Recruiting Command (USAREC), National Guard Personnel Center (NGPERCEN), and the Military Entrance Processing Command (MEPCOM), a joint command for which the Army is the executive agent. It fits into the Army Enterprise Strategy, supporting the modernization of Power Projection Platforms. It is fully compatible with and supports DOD's Enterprise Strategy/Corporate Information Management (CIM) initiative, and the Administration's Information Superhighway Initiative. FY 99 funds will buy automation infrastructure, communications capability, and system modeling to support the personnel community consolidation initiative and distributed processing capabilities. Continued implementation of PES-A, will be a major step toward providing information as a force multiplier and integration of the Army's personnel community, with emphasis on system interoperability and Total Army Personnel Data Base permitting integration of Active, Reserve, Civilian, and Army National Guard Systems.

USMEPCOM JOINT COMPUTER CENTER (JCC): A memorandum of understanding between DOD and Selective Service System (SSS) formalized the establishment of the JCC where automatic data processing resources can be shared by USMEPCOM and SSS. The JCC mission includes the management and enhancement of shared resources, in full support of USMEPCOM and SSS peacetime and mobilization mission requirements. FY 99 funds will procure new technology tape drive storage systems and operating system software which support USMEPCOM and SSS peace time growth requirements.

<b>Exhibit P-40C Budget Item Justification Sheet</b>		Date February 1998
Appropriation / Budget Activity/Serial No. OTHER PROCUREMENT / 2 / Communications and Electronics Equipment	P-1 Item Nomenclature PERSONNEL AUTOMATION SYSTEMS (BE4164)	
Program Elements for Code B Items	Code	Other Related Program Elements
<p>(Continuation)</p> <p><b>US MILITARY ACADEMY (USMA) IMA MODERNIZATION:</b> The USMA is an accredited institution of higher learning. To maintain its accreditation standards and to instruct/prepare future Army Leaders to operate in the sophisticated high-tech world of modern warfare, it must employ in its classrooms/laboratories the latest technology/instructional tools available. Mini/microcomputers supporting the academic departments, must periodically be replaced as they become technologically obsolete or uneconomical to repair. FY 99 funding continues conversion of classrooms, upgrading classroom audio and video facilities. Additionally, funds will procure digital imaging and photography technology, USMA wide area network (WAN) upgrades, and expanded library software.</p> <p><b>USMEPCOM INTEGRATED RESOURCE SYSTEM (MIRS):</b> The purpose of US Military Entrance Processing Command (USMEPCOM) MIRS is to provide the automation and communication capability for USMEPCOM to meet its peacetime, mobilization and wartime military manpower accession mission for the Armed Services. The MIRS will be the cornerstone for a DoD-wide military accession system, Joint Recruiting Information Support System (JRISS), incorporating the concept of electronic data sharing using standard DoD data elements between USMEPCOM and all the Armed Services recruiting commands, greatly reducing redundant data entry. MIRS continues to improve Military Entrance Processing Stations (MEPS) operations by automating functions previously done manually. This project also includes Computerized Adaptive Testing-Armed Services Vocational Aptitude Battery (CAT-ASVAB), the automated version of the ASVAB test given to determine applicants mental abilities. FY99 funding is critical to keep the current MIRS hardware running by buying memory and to support the additional DoD and service requirements as well as improve operations in the 65 Military Entrance Processing Stations (MEPS) throughout the United States. FY 99 funding will also be used to start the process of determining replacement equipment for the current MIRS equipment which is rapidly becoming technologically obsolete and if not replaced in a timely fashion will be uneconomical to repair and will not be able to meet future DoD and service requirements.</p> <p><b>DEFENSE CIVILIAN PERSONNEL DATA SYSTEM MODERNIZATION (DCPDS MOD):</b> Army DCPDS MOD efforts will support the standardization of business processes in the Civilian Personnel functional area and regionalization of Civilian Personnel Offices. DCPDS MOD OPA expenditures provide automation infrastructure to support fielding of this DOD-wide system to Army activities receiving the DCPDS MOD capability. Automation infrastructure fielded to Army activities will consist of Open System Environment (OSE) compliant data and process servers, user workstations, system peripherals, communications infrastructure, and Commercial Off the Shelf (COTS) software, (operating system, DBMS, office automation, etc.) fielded to ten Army Regional Service Centers (RSCs) and more than 100 subordinate installation level Customer Support Units (CSUs). Army automation infrastructure will be compatible with the DOD DCPDS MOD application software and integrate with the OSE architecture at Army's sustaining base sites. Procurement strategy makes maximum use of existing contracts. This effort is projected to improve DOD wide productivity over 30% in the civilian personnel management functional area in order to accommodate reductions already applied to outyear Army Budget. FY 99 funds procure automation infrastructure to support the necessary productivity enhancements. The FY 99 infrastructure procurement completes initial Army DCPDS-MOD fieldings and provides necessary upgrades to support Air Force fielding in FY 99 of the objective DCPDS-MOD application software baseline to Army Sites.</p> <p><b>JOINT RECRUITING INFORMATION SUPPORT SYSTEM (JRISS):</b> The JRISS program has recently ceased to be a joint development effort. The program is being rescoped to emphasize Army recruiting requirements. Efforts will continue on deployment of this capability and implementation of Army specific recruiting automation enhancements which can be integrated with the Joint Defense Integrated Military Human Resources System (DIMHRS) when implemented. The rescoped program will support the standardization of business processes in the Army recruiting functional area and systems will be fielded to all levels of the Army recruiting structure. The rescoped program will aid the Army in its new accession goals in a era of steadily dwindling resources and shrinking pool of military service applicants. Key system features include standardized data, mobility for marketing, testing, data collections and reporting, one time data entry, automated leads distribution, and system generated reports. OPA expenditures provide automation infrastructure to support development of software for the Army system and for fielding to Army users. FY99 funds support initial acquisition of laptops for the final two Army Recruiting Brigades and continue acquisition of laptops for two Recruiting Brigades started in FY98. Funds will also procure system wide automation infrastructure, to include Local Area Networks (LANs), workstations, servers and printers.</p>		

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: PERSONNEL AUTOMATION SYSTEMS (BE4164)		Weapon System Type:		Date: February 1998	
OPA		FY 96		FY 97		FY 98		FY 99	
Cost Elements		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each
ACPERS	A	626	VAR	VAR	390	VAR	VAR		
Personnel Enterprise System-Automation (PES-A)	A	514	VAR	VAR	6998	VAR	VAR	5769	VAR
MEPCOM JCC	A				1100	VAR	VAR	695	VAR
USMA IMA Modernization	A	2503	VAR	VAR	2219	VAR	VAR	2420	VAR
MEPCOM Integrated Resource System (MIRS)	A	3531	VAR	VAR	322	VAR	VAR	538	VAR
DCPDS MOD	A	22194	VAR	VAR	4579	VAR	VAR	403	VAR
Joint Recruiting Information Support (JRISS)	A	2278	VAR	VAR	19266	VAR	VAR	9931	VAR
<b>TOTAL</b>		<b>31646</b>			<b>34874</b>			<b>30537</b>	
								<b>19756</b>	

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998		
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					Weapon System Type:					P-1 Line Item Nomenclature: PERSONNEL AUTOMATION SYSTEMS (BE4164)		
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revis Avail	RFP Issue Date
ACBERS HW/SW/Peripherals		EDS		SMC	Ft Monmouth	Feb-96	Jun-96	VAR	VAR	YES	NO	
FY 96		EDS		SMC	Ft Monmouth	Feb-97	Apr-97	1	390	YES	NO	
FY 97												
Personnel Enterprise System-Automation (PES-A)												
HW/SW Upgrades												
FY 96		EDS		C/FP	USAISSAA/GSA	Mar-96	Sep-96	1	514	YES	NO	
FY 97		EDS		C/FP	USAISSAA/GSA	Mar-97	Oct-97	VAR	VAR	YES	NO	
FY 98		VARIOUS		C/FP	GSA/DSSW	Mar-98	Oct-98	VAR	VAR	YES	NO	
FY 99		VARIOUS		C/FP	GSA/DSSW/FEDSIM	Mar-99	Oct-99	VAR	VAR	YES	NO	
MEPCOM JCC												
Mainframe Software/DASD/Mainframe Upgrade/ Printers/Tape Drives												
FY 97		Rock Island, IL		C/FP	GSA	Feb-97	Mar-97	VAR	VAR	YES	NO	
FY 98		Rock Island, IL		C/FP	GSA	Feb-98	Mar-98	VAR	VAR	YES	NO	
FY 99		Rock Island, IL		C/FP	GSA	Jan-99	Feb-99	VAR	VAR	YES	NO	
USMA IMA Modernization												
Computer Lab HW/SW Upgrade/Library System/ Servers												
FY 96		VAR*		C/FP	USMA/ISMA	VAR	VAR	VAR	VAR	YES	NO	
FY 97		VAR*		C/FP	USMA	VAR	VAR	VAR	VAR	YES	NO	
FY 98		VAR*		C/FP	USMA	VAR	VAR	VAR	VAR	YES	NO	
FY 99		VAR*		C/FP	USMA	VAR	VAR	VAR	VAR	YES	NO	
REMARKS:												
EDS - Electronic Data Systems - Herndon, VA					USAISSAA - Information Systems Selection and Acquisition Agency							
USMA - US Military Academy					SMC - Super Minicomputer Contract							
IBM - Oakbrook, IL					GSA - General Services Administration							
Computer Sales International - St Clair Shores, MN					ISMA - Information Systems Management Activity, Ft Monmouth, NJ.							
VAR - Unit costs and quantities vary by configuration.												
VAR* - Halifax Engineering - Halifax, VA; Computer Science Dev Corp - Chantilly, VA; Dice America - Suffern, NY; IHS Logcraft - Nashua, NH, EDS - Plano, TX;												
Manufacturing Tech - Ft Walton, FL; Applied Info Service - Arlington, VA; General Info Tech - New York, NY; Pruitt Office Machine, Decatur, AL.												
DSSW-Defense Supply Services Washington, Washington, DC.												

Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					Weapon System Type:			P-1 Line Item Nomenclature: PERSONNEL AUTOMATION SYSTEMS (BE4164)				
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
MEPCOM Interactive Resource System (MIRS) CAT-ASVAB Hw/Sw/Furniture		VAR***		C/FP	GSA	VAR*	VAR*	VAR	VAR	YES	NO	
FY 96 Hardware/Software Upgrade		Lockheed-Martin		C/FP	USAISSAA	VAR*	VAR*	VAR	VAR	YES	NO	
FY 97		Lockheed-Martin		C/FP	CAC-WOO	Jan-97	Mar-97	VAR	VAR	YES	NO	
FY 98		Lockheed-Martin		C/FP	CAC-WOO	Jan-98	Mar-98	VAR	VAR	YES	NO	
FY 99		Lockheed-Martin		C/FP	CAC-WOO	Jan-99	Mar-99	VAR	VAR	YES	NO	
DCPDS MOD Hardware/Software Upgrade		VAR**		C/FP	USAISSAA	VAR*	VAR*	VAR	VAR	YES	NO	
FY 96		VAR**		C/FP	CAC-WOO	VAR*	VAR*	VAR	VAR	YES	NO	
FY 97		VAR**		C/FP	CAC-WOO	VAR*	VAR*	VAR	VAR	YES	NO	
FY 98		VAR**		C/FP	CAC-WOO	VAR*	VAR*	VAR	VAR	YES	NO	
FY 99		VAR**		C/FP	CAC-WOO	VAR*	VAR*	VAR	VAR	YES	NO	
Joint Recruiting Information Support (JRISS) - Hardware/Software Upgrades - Data/Process/Application Data Servers - Workstations - COTS Software		Lockheed-Martin		C/FP	USAISSAA	VAR*	VAR*	VAR	VAR	YES	NO	
FY 96		VAR****		C/FP	GSA	Aug-97	Oct-97	VAR	VAR	YES	NO	
FY 97		VAR****		C/FP	GSA	Mar-98	Jul-98	VAR	VAR	YES	NO	
FY 98		VAR****		C/FP	GSA	Jan-99	Jul-99	VAR	VAR	YES	NO	
FY 99		VAR****		C/FP	GSA	Jan-99	Jul-99	VAR	VAR	YES	NO	
REMARKS: Lockheed-Martin - Oswego, NY VAR - Unit costs and quantities vary by configuration. VAR* - Multiple contracts awarded/Delivered throughout the year. VAR** - PRC - Planning Research Corp - Reston, VA; EDS - Electronic Data Systems - Herndon, VA; Lockheed-Martin - Oswego, NY VAR*** - UNICOR - Lexington, KY; Lockheed-Martin - Oswego, NY; GSA Contractors USAISSAA - Information Systems Selection and Acquisition Agency CAC-WOO - CECOM Acquisition Center-Washington Operations Office VAR**** TELOS. Ashburn. VA. DEL. Austin. TX: GMR. Manassas. VA SYSOREX Information Systems, Inc., Fairfax, VA GTSI -Government Tech Services, Inc., Chantilly, VA												



Exhibit P-40, Budget Item Justification Sheet												
Appropriation / Budget Activity/Serial No:										Date:		
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										February 1998		
P-1 Item Nomenclature:										LOGISTICS AUTOMATION SYSTEMS (BE4166)		
Program Elements for Code B Items:										Other Related Program Elements:		
Code:												
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	5.0	4.8	9.5	6.0	3.0	3.3	3.9	4.1	2.1	0.0	41.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	5.0	4.8	9.5	6.0	3.0	3.3	3.9	4.1	2.1	0.0	41.7
Initial Spares												
Total Proc Cost	0.0	5.0	4.8	9.5	6.0	3.0	3.3	3.9	4.1	2.1	0.0	41.7
Flyaway U/C												
Wpn Sys Proc U/C												

**DESCRIPTION:** This budget line funds automation initiatives which support transportation, cargo movement, and resupply initiatives under the Army's Strategic Mobility Program (ASMP), begun in part as a result of lessons learned from Operation Desert Shield/Storm and the Congressionally mandated Mobility Requirements Study (MRS). The Army is changing its warfighting strategy from a forward deployed force to a CONUS-based force capable of rapid deployment worldwide. At the center of this strategy of rapid force movement are a number of transportation automated systems that facilitate/enable force movement and resupply.

**JUSTIFICATION:** WORLDWIDE PORT SYSTEM (WPS) is a Military Traffic Management Command (MTMC) automated information system (AIS) initiative essential to effective force projection and in transit visibility of unit and sustainment cargos. At the center of the new Army strategy for rapid power projection to meet unspecified threats, WPS is one of several systems that provide movement control support to the Army's Strategic Mobility Program, initiated as a result of lessons learned from Operation Desert Shield/Storm and the Congressionally mandated MRS. When fully fielded, WPS will support MTMC ocean terminals, US Navy port activities worldwide, FORSCOM Reserve Component Transportation Terminal Units, and Active Component Automated Cargo Documentation Detachments with worldwide warfighting support missions. Compact and transportable, WPS substantially increases the ability of the Defense Transportation System to provide in transit visibility information to the warfighting CINCs and USTRANSCOM, while reducing the personnel required to operate the system and the transportation required to deploy the system to remote places. WPS will replace four aging AISs that support ocean terminal management and cargo documentation missions during peace and war. The replaced AISs include the obsolete Terminal Management System in CONUS, and the Army Standard Port System - Enhanced, whose significant deficiencies were identified during Operation Desert Shield/Storm. FY 99 funds buy hardware and software to continue fielding WPS to selected sites.

**AUTOMATED AIRLOAD PLANNING SYSTEM (AALPS):** AALPS is a knowledge based "expert system" that assists user with aircraft planning. The Army originally developed AALPS as the Automated Air Load Planning System (AALPS) to provide a stand alone expert tool for Army load planning and deploying units. AALPS uses an artificial intelligence methodology to load plan for aircraft in near real time. The system takes data input of equipment and personnel, establishes gross load planning information, and quickly produces fully executable (certified) load plans for either a single mission, brigade sized deployment or multiple division sized airlift. AALPS is an approved migration system, and though it is a joint system, the Army is designated as the proponent, responsible for developing, implementing and fielding it to the services. FY 99 funds will be used to purchase hardware and software for Army users, supplying them with a deployable automated platform for developing load plans and manifests, which will be used in air deployments and in determining airlift requirements during contingency planning operations. Fielding sites are Ft Bragg, Ft Campbell, Ft Stewart, Ft Benning, Ft Drum, Ft Hood, Ft Lewis, USAREUR, Schofield Barracks, Ft Eustis, Ft Bliss, Ft Riley, Ft Sill, Ft Carson, Ft Richardson, Ft Polk, Ft Irwin, Ft Huachuca, Ft Lee, Ft McCov, Ft McPherson, and Ft Dix.

<div> <div>Exhibit P-40C Budget Item Justification Sheet</div> <div>Date</div> <div>February 1988</div> </div>		
<div> <div>Appropriation / Budget Activity/Serial No.</div> <div>OTHER PROCUREMENT / 2 / Communications and Electronics Equipment</div> </div>	<div> <div>P-1 Item Nomenclature</div> <div>LOGISTICS AUTOMATION SYSTEMS (BE4166)</div> </div>	
<div> <div>Program Elements for Code B Items</div> <div>Code</div> <div>Other Related Program Elements</div> </div>		
<div>(Continued)</div> <div> <p>INTEGRATED COMPUTERIZED DEPLOYMENT SYSTEM (ICODES): ICODES is being developed as a single standard common user slow planning system to meet DOD worldwide requirements. ICODES is a Military Traffic Management Command (MTMC) initiative, applying the principles of Artificial Intelligence to the function of planning loads and stowage of cargo and equipment aboard ocean vessels. ICODES will dramatically reduce the time (from 12 hours to under 30 minutes) and improve the accuracy of the ship slow planning process, enabling the user to concentrate on complex problems associated with port management and vessel loading. ICODES will support rapid deployment missions, planning cargo deployments from multiple seaports of embarkation and debarkation, as well as multiple ships. ICODES will also detail a three dimensional representation of the ship compartments, resolving the height limitations of the current system. Benefits from this system include: replacement of the current autonomous and redundant systems; improved responsiveness to changes and contingencies; ability to direct transfer stow plan files; streamlined and standardized terminal cargo training support; more effective allocation of marine cargo resources; comprehensive report capability; more precise cargo stow plans; and increased productivity. FY 99 funds procure the hardware and software necessary to begin fielding to authorized users.</p> <p>AUTOMATIC IDENTIFICATION TECHNOLOGY (AIT): AIT is a suite of technologies that enables the automatic capture of source data rapidly and accurately and transfer the data to Automated Information Systems (AISs) with little or no human intervention, thereby enhancing the ability to identify, track, document, and control deploying and redeploying forces, equipment, personnel and sustainment cargo. AIT will streamline the Military Traffic Management Command and Army logistics business process and enhance its warfighting capability. The AIT devices purchased, configured and installed, will be integrated with other components of the DoD AIT infrastructure to improve interoperability. FY99 funds procure hand held readers and interrogators, business process servers for receiving, storing and forwarding AIT transactions and radio frequency identification tags.</p> </div>		

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: LOGISTICS AUTOMATION SYSTEMS (BE4166)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	cd	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
	A	2945	VAR	VAR	927	VAR	VAR						
Transportation Coordinator Automated Command & Control Information System (TCACCIS)	A	1896	45	42	3005	15	200	1000	23	43	1007	22	46
Worldwide Port Systems (WPS)	A				553	92	6				1500	250	6
Automated Air Loading Planning System (AALPS)	A				5043	VAR	VAR						
TC AIMS II	A							126	1	126	200	4	50
Integrated Computerized Deployment System (ICODES)	A							862	VAR	VAR	271	VAR	VAR
Intransit Visibility/Automatic Identification Technology (ITV/AIT)	A							3995	VAR	VAR			
LIA Logistics Automation Systems	A												
TOTAL		4841			9528			5983			2978		

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					Weapon System Type:		P-1 Line Item Nomenclature: LOGISTICS AUTOMATION SYSTEMS (BE4166)			
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Reven Avail	RFP Issue Date
Transportation Coordinator Automated Command & Control Information System (TCACCIS)	VAR** Pulsar Data Systems	C/FP	MTMC	VAR*	VAR*	VAR	VAR	YES	NO	
Hardware/Software Upgrade		C/FP	MTMC	VAR*	VAR*	VAR	VAR	YES	NO	
FY 96										
FY 97										
Worldwide Port System (WPS)										
WPS Hardware & Software										
FY 96	CFS	C/FP	MTMC	Jul-96	Nov-96	45	42	YES	NO	
FY 97	CFS	C/FP	MTMC	Jul-97	Nov-97	15	200	YES	NO	
FY 98	CFS	C/FP	MTMC	Jul-98	Nov-98	23	44	YES	NO	
FY 99	CFS	C/FP	MTMC	Jul-99	Nov-99	22	45	YES	NO	
Automated Airload Planning System (AALPS)										
AALPS Hardware & Software										
FY 97	SYTEL, INC.	C/FP	MTMC	Jan-97	Mar-97	92	6	YES	NO	
FY 99	SYTEL, INC.	C/FP	MTMC	Jan-99	Mar-99	250	6	YES	NO	
TC AIMS - HP9000 Server/Workstations/Laptops										
FY 97	SYSOREX	C/FP	CAC-WOO	May-97	Aug-97	VAR	VAR	YES	NO	
Integrated Computerized Deployment System (ICODES)										
FY 98	CFS	C/FP	MTMC	Mar-98	May-98	10	104	YES	NO	
FY 99	CFS	C/FP	MTMC	Mar-99	May-99	4	50	YES	NO	
LIA Logistics Automation Systems										
FY 98	Quality Research	C/FP	CECOM	Mar-98	May-98	VAR	VAR	YES	NO	
ITV/AIT										
FY98	Savi Tech	C/FP	MTMC	Feb-98	May-98	VAR	VAR	YES	NO	
FY99	Savi Tech	C/FP	MTMC	Feb-99	May-99	VAR	VAR	YES	NO	
REMARKS:										
Pulsar Data Systems - Lanham, MD					VAR** - Technology Management and Analysis Corp. - McLean, VA; Informix - Lenexa, KA;					
CFS - Computer Federal Systems - Richmond, VA					Pulsar Data Systems - Lanham, MD; IPI Gramtech - San Antonio, TX; Government					
SYSOREX-Information Systems, Inc., Fairfax, VA					Micro Resources - Manassas, VA					
MTMC - Military Traffic Management Command					SYTEL Inc. - Bethesda, MD					
VAR* - Multiple contracts awarded/Delivered throughout the year.					Quality Research - Huntsville AL					
VAR - Unit costs and quantities vary by configuration.					Savi Tech - Mountain View, CA					
CECOM - Communications and Electronics Command					CAC-WOO CECOM Acquisition Center, Washington Operations Office					

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												SUSTAINING BASE INFO SVC (SBIS) (BE4200)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	102.2	5.1	14.5	22.4	7.0	0.0	0.0	0.0	0.0	0.0	0.0	151.2	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	102.2	5.1	14.5	22.4	7.0	0.0	0.0	0.0	0.0	0.0	0.0	151.2	
Initial Spares													
Total Proc Cost	102.2	5.1	14.5	22.4	7.0	0.0	0.0	0.0	0.0	0.0	0.0	151.2	
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:** The Sustaining Base Information Services (SBIS) program consists of up to 13 custom developed applications to be fielded to various Army installations. SBIS applications are designed to operate in an Open Systems Environment (OSE) compliant automated infrastructure maximizing the number of support suppliers while minimizing the total life cycle cost. Funding provides for complete infrastructure solutions to support the applications developed under SBIS, and it procures SBIS servers which are integrated with existing automation assets at each fielded site. SBIS provides required automation support to improve and standardize critical sustaining base business processes. Fielded software has become an integral part of readiness, mobilization and installation management. Developed applications enhance key elements of those support missions and enable consistent, timely data collection and dissemination, allowing better management to key areas of the Army Safety Program, security clearance status monitoring, the schoolhouse system, and range facility management.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: SUSTAINING BASE INFO SVC (SBIS) (BE4200)		Weapon System Type:		Date: February 1998		
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99		
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
Infrastructure to include: IBM R/S 6000 ProcServer(SBIS & ITP/ISM) IBM R/S 6000 Data Servers IBM R/S 6000 Application Data Servers Communications Infrastructure		14518	VAR	VAR	22359	VAR	VAR	7000	VAR	VAR
TOTAL		14518			22359			7000		

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature: SUSTAINING BASE INFO SVC (SBIS) (BE4200)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Reven Avail	RFP Issue Date
Workstations/Data Servers/Process Data Server COTS software/Associated Comm Infrastructure/ FY 96 FY 97	Lockheed-Martin Federal Lockheed-Martin Federal	C/FP C/FP	USAISSAA CAC - WOO	Jan-96 Jan-97 Jun-97 Sep-97	Mar-96 Mar-97 Aug-97 Nov-97	VAR VAR VAR VAR	VAR VAR VAR VAR	YES YES YES YES	NO NO NO NO	
FY98	Lockheed-Martin Federal	C/FP	CAC-WOO	Feb-98	Apr-98	VAR	VAR	YES	NO	
<b>REMARKS:</b> Lockheed-Martin Federal Systems - Oswego, NY VAR - Unit costs vary by configuration. Quantities vary to meet specific needs at a variety of functional work centers. USAISSAA - Information Systems Selection and Acquisition Agency CAC -WOO - CECOM Acquisition Center - Washington Operating Office										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										JOINT COMPUTER AIDED ACQ & LOG SPT (WA1000)	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment													
Program Elements for Code B Items:		Other Related Program Elements:											
		Code:											
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	0.0	0.0	0.0	21.9	34.2	44.0	33.0	40.6	41.4	42.3	0.0	257.5	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	0.0	21.9	34.2	44.0	33.0	40.6	41.4	42.3	0.0	257.5	
Initial Spares													
Total Proc Cost	0.0	0.0	0.0	21.9	34.2	44.0	33.0	40.6	41.4	42.3	0.0	257.5	
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:** The Joint Computer-Aided Acquisition and Logistics Support (JCALS) system provides an infrastructure capable of integrating digitized technical data that supports the weapons systems acquisition and logistics life cycle. The system is data driven and provides an automated information systems architecture, independent of application. JCALS will initially meet the Services' goal of automating technical manual processes and functions. The JCALS architecture provides a distributed, open systems environment that makes extensive use of both industry and Government standards. The architecture is designed for flexibility and growth, and is capable of accommodating additional system requirements, technological improvements and new functionality.

At the JCALS sites, hardware and software configurations are dependent on each site's organization and functions, processing needs and role in the overall system. The system provides local and wide area communications processing, distributes, manages, updates and replicates data throughout the system and delivers the applications and functions to the users' workstations. The system architecture includes a central site for user support, system monitoring, life cycle software support, maintenance and troubleshooting.

**JUSTIFICATION:** FY 99 funds support deployment of the JCALS capability to high priority technical manual users at 50 Joint Service sites. The DOD approved site list is extensive, including service depots, installations and schools.



Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: JOINT COMPUTR AIDED ACQ & LOG SPT (WA1000)		Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99	
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each
Joint Computer Aided Acquisition and Log Systems (JCALS)									
Hardware Investment	A			11548	VAR	*26	VAR	30077	*50
Software Investment	A			5280	VAR	*26	VAR	9160	*50
Site Activation	A			5083	VAR	*26	VAR	4800	*50
Quantities reflect number of sites. VAR: Units costs vary by configuration.									
TOTAL				21911				34212	
								44037	

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature: JOINT COMPUTR AIDED ACQ & LOG SPT (WA1000)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revis Avail	RFP Issue Date
Joint Computer Aided Aquisition and Log Systems (JCALS) Hardware Investment FY 97 FY 98 FY 99	CSC	C/FP	CAC - WOO	Apr-97	Oct-97	16	VAR	YES	NO	
	CSC	C/FP	CAC - WOO	Feb-98	Jun-98	26	VAR	YES	NO	
	CSC	C/FP	CAC - WOO	Feb-99	Jun-99	50	VAR	YES	NO	
Software Investment FY 97 FY 98 FY 99	CSC	C/FP	CAC - WOO	Apr-97	Oct-97	16	VAR	YES	NO	
	CSC	C/FP	CAC - WOO	Feb-98	Jun-98	26	VAR	YES	NO	
	CSC	C/FP	CAC - WOO	Feb-99	Jun-99	50	VAR	YES	NO	
Site Activation FY 97 FY 98 FY 99	CSC	C/FP	CAC - WOO	Apr-97	Oct-97	16	VAR	YES	NO	
	CSC	C/FP	CAC - WOO	Feb-98	Jun-98	26	VAR	YES	NO	
	CSC	C/FP	CAC - WOO	Feb-99	Jun-99	50	VAR	YES	NO	
REMARKS: Quantities reflect # of sites. VAR - Unit costs vary by configuration CSC - Computer Systems Corp, Marlton, NJ CAC-WOO - CECOM Acquisition Center - Washington Operating Office										

Exhibit P-40, Budget Item Justification Sheet											Date:	
Appropriation / Budget Activity/Serial No:											February 1998	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment											P-1 Item Nomenclature:	
RESERVE COMPONENT AUTOMATION SYS (RCAS) (BE4167)												
Program Elements for Code B Items:											Other Related Program Elements:	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	548.1	135.0	81.8	72.2	111.0	108.2	84.8	94.1	91.9	19.3	0.0	1346.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	548.1	135.0	81.8	72.2	111.0	108.2	84.8	94.1	91.9	19.3	0.0	1346.4
Initial Spares												
Total Proc Cost	548.1	135.0	81.8	72.2	111.0	108.2	84.8	94.1	91.9	19.3	0.0	1346.4
Flyaway U/C												
Wpn Sys Proc U/C												

**DESCRIPTION:** The Reserve Component Automation System (RCAS) is an automated information system that will provide the Army the capability to more effectively administer, manage and deploy Army National Guard and Army Reserve forces. The RCAS will link over 10,000 Guard and Reserve units at over 4,000 locations. The RCAS will support daily operational, training, and administrative tasks at all Guard and Reserve echelons, and will provide timely and accurate information to plan and support mobilization. The RCAS is an Acquisition Category 1AM program managed by the Chief, National Guard Bureau. The restructured RCAS contract was signed in January 1996. The redesigned system consists of commercial-off-the-shelf (COTS) hardware and office automation software, government off-the-shelf (GOTS) software, and new software applications integrated into an open system, PC-based architecture.

**JUSTIFICATION:** The RCAS Mission Needs Statement (MNS) was approved on 5 March 1996. Program goals and functional requirements are described in the approved April 1996 RCAS Operational Concept Description (OCD). The RCAS program approach was approved by the RCAS General Officer Steering Committee (GOSC), the OSD MAISRC, and Congress. On 23 September 1996 a joint OSD and Army MAISRC Overarching Integrated Process Team (OIPT) chaired by OSD (C31 Acquisition) unanimously approved the fielding of the first increment of the RCAS hardware and software. Increment One will provide the Reserve Component with personal computers, network servers, office automation, and a nation-wide infrastructure that will support electronic mail and file transfer. On 24 November 1997 an Integrating Integrated Process Team (IIPT) approved full fielding of Increment 2 of the RCAS. This increment adds database servers to the infrastructure and logistics functionality associated with GOTS software to include Unit Level Logistics System (ULLS)-Ground, ULLS-S4, and Standard Property Book System-Redesign (SPBS-R). The annual requirements specified above support the development and fielding of the system in accordance with the approved schedule. FY98 is scheduled to field the system to 7 USAR commands and 9 ARNG states, principally in the midwest. FY99 is scheduled to field the system to 8 USAR commands and 9 ARNG states in the West and Southeast U.S.

Exhibit P-5, Weapon OPA Cost Analysis			Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Line Item Nomenclature: RESERVE COMPONENT AUTOMATION SYS (RCAS) (BE4167)			Weapon System Type:			Date: February 1998		
ID	CD	OPA Cost Elements	FY 96			FY 97			FY 98			FY 99		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
PRODUCTION	A	ADP Equipment	22339	1	22339	21240	1	21240	39373	1	39373	39150	1	39150
		ADP Software	19857	1	19857	10696	1	10696	21982	1	21982	21403	1	21403
SUBTOTAL			42196			31936			61355			60553		
FIELDING			16568	1	16568	11269	1	11269	17027	1	17027	16945	1	16945
SUSTAINMENT/UPGRADES			2819	1	2819	3797	1	3797	4159	1	4159	3776	1	3776
PROGRAM MANAGEMENT/OPERATIONS			9054	1	9054	10799	1	10799	11095	1	11095	11532	1	11532
SYSTEM ENGINEERING			8004	1	8004	10073	1	10073	12928	1	12928	10457	1	10457
AWARD FEE			3122	1	3122	4279	1	4279	4459	1	4459	4937	1	4937
TOTAL			81763			72153			111023			108200		

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998			
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature:										
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type		Location of PCO		Award Date	Date of First Delivery	QTY	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
RCAS System														
FY96		Boeing Info Sys, Vienna, VA		Option		ISSAA		Oct-95	Oct-95	1	42196	Yes	No	
FY97		Boeing Info Sys, Vienna, VA		Option		CECOM (former ISSAA)		Oct-96	Oct-96	1	31936	Yes	No	
FY98		Boeing Info Sys, Vienna, VA		Option		CECOM (former ISSAA)		Oct-97	Oct-97	1	61355	Yes	No	
FY99		Boeing Info Sys, Vienna, VA		Option		CECOM (former ISSAA)		Oct-98	Oct-98	1	60553	Yes	No	
<b>REMARKS:</b> The RCAS is a "turn key" system, and as such, is considered one system. The quantity therefore is one.  Source Selection for the Development and Deployment Phase was completed during the fourth quarter, FY 1991.  Unit costs only reflect hardware and software acquisition costs. Other essential contract costs associated with the development and fielding of the system are not included in the unit costs.  Contract award dates are for annual renewals of the base contract awarded in 1991														

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										AFRTS (BZ8480)	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Other Related Program Elements:											
Program Elements for Code B Items:		Code:											
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	68.2	3.0	0.4	2.4	0.4	0.5	0.5	0.5	0.5	0.5	0.0	77.0	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	68.2	3.0	0.4	2.4	0.4	0.5	0.5	0.5	0.5	0.5	0.0	77.0	
Initial Spares													
Total Proc Cost	68.2	3.0	0.4	2.4	0.4	0.5	0.5	0.5	0.5	0.5	0.0	77.0	
Flyaway U/C													
Wpn Sys Proc U/C													
<p><b>DESCRIPTION:</b> The Army Broadcasting Service (ABS) is the DOD Executive Agent for the Army's Armed Forces Radio and Television Service (AFRTS) operations. AFRTS provides overseas warfighting Commanders-in-Chief (CINCs) with radio and television mass communications during peacetime, emergency, contingency and wartime operations in accordance with DOD Directive 5122.10, and serves DOD personnel overseas with American language news, command information and entertainment programming. Geographical areas served by Army AFRTS facilities are Germany, England, Scotland, Italy, Spain, the Middle East (including the Sinai, Saudi Arabia and Kuwait), Korea, Central and South America, and the Marshall Islands. Four Army radio and television networks, consisting of approximately 360 radio and television facilities, broadcast continuous 24-hour programming to nearly 500,000 soldiers, sailors, airmen, marines, DOD civilians and their families worldwide. AFRTS is the only mass communications available to overseas commanders to communicate time-sensitive emergency health and welfare announcements, command information and news. Overseas wartime operational CINCs consider AFRTS a battlefield support function that is critical in maintaining and enhancing the morale, readiness, and well-being of overseas troops, DOD personnel and their families. Overseas availability of the AFRTS communications service has become increasingly important to disseminate timely information as the Army downsizes and shifts resources in support of contingency, peace keeping and wartime operations such as Desert Shield/Storm and Operations Just Cause, Restore Hope, Provide Promise, Safe Haven, and Joint Endeavor. Congress mandates that AFRTS provide the same type of radio and television service to personnel overseas which is available to American citizens in the United States.</p> <p><b>JUSTIFICATION:</b> FY 99 funds purchase commercial video switching/control systems and a video server system. Equipment purchases support fixed facilities and full spectrum contingency operations such as Desert Storm, Operation Deny Flight, Operation Support Hope (Rwanda, Uganda, Zaire), PREPO AFLOAT, Joint Task Force Bravo (Honduras), Zagreb, Macedonia and Bosnia to ensure warfighting CINCs have required AFRTS resources to execute wartime and contingency/emergency information needs. In addition to health, safety and quality of life issues, "Observations and Lessons Learned, Operation Desert Storm," validated Army AFRTS as a force multiplier and Battlefield Support Agency. Army AFRTS, through its primary mission of command information, serves as an information conduit for the battlefield commander. The mass communications broadcast mission of AFRTS is not duplicated by the strategic communication mission of the Army or other services and is the only means of direct communication from the President of the United States to US deployed forces. Overseas force reductions, force realignment, post-Conventional Forces Europe (CFE) troop strength reductions in Korea and overseas base closures have been considered and do not impact the equipment required to sustain the basic broadcast capability to remaining forces.</p>													

Exhibit P-5, Weapon OPA Cost Analysis				Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: AFRTS (B28480)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		ID	CD	FY 96		FY 97		FY 98		FY 99					
				TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
American Forces Network Europe Replacement Equipment		A		53	1	53	1705	*11	VAR	119	1	119	162	1	162
American Forces Network Korea Replacement Equipment		A		393	VAR	VAR	440	*2	VAR	327	2	164	325	2	163
Southern Command Network Replace Equipment		A					238	1	238						
									#REF!						
TOTAL				446			2383			446			487		

Exhibit P-5a, Budget Procurement History and Planning										
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					Weapon System Type:			Date: February 1998		
P-1 Line Item Nomenclature: AFRTS (BZ8480)										
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
American Forces Network Europe Replacement Equipment FY 96 FY 97 FY 98 FY 99	Nautel Maine, Inc AVID Technology AVID Technology AVID Technology	C/FP	TASA	Nov-95	Jan-96	1	53	YES	NO	
		C/FP	TASA	Dec-96	Aug-97	11	VAR	YES	NO	
		C/FP	TASA	Dec-96	VAR	1	119	YES	NO	
		C/FP	TASA	Dec-96	VAR	1	162	YES	NO	
American Forces Network Korea Replacement Equipment FY 96 FY 97 FY 98 FY 99	VAR* AVID Technology AVID Technology AVID Technology	C/FP	TASA	VAR	VAR	VAR	VAR	YES	NO	
		C/FP	TASA	Dec-96	Aug-97	2	VAR	YES	NO	
		C/FP	TASA	Dec-96	VAR	2	164	YES	NO	
		C/FP	TASA	Dec-96	VAR	2	163	YES	NO	
Southern Command Network FY 97	AVID Technology	C/FP	TASA	Dec-96	Aug-97	1	238	YES	NO	
REMARKS: VAR* - Equipment items are grouped into bulk buy contracts, therefore, the number of contacts and the number of items do not correspond. This list of contractors is too voluminous to address each on this form. T-ASA - Television-Audio Support Activity Nautel Maine Inc, Bangor, ME AVID Technology, Tewksburg, MA										



Exhibit P-40, Budget Item Justification Sheet											
Appropriation / Budget Activity/Serial No:										Date:	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment										February 1998	
P-1 Item Nomenclature:										ITEMS LESS THAN \$2.0M (N/V) (BK5289)	
Program Elements for Code B Items:										Other Related Program Elements:	
Code:											
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty											
Gross Cost	113.7	4.1	4.4	2.1	2.5	10.6	11.2	11.4	11.7	0.0	176.4
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc (P-1)	113.7	4.1	4.4	2.1	2.5	10.6	11.2	11.4	11.7	0.0	176.4
Initial Spares											
Total Proc Cost	113.7	4.1	4.4	2.1	2.5	10.6	11.2	11.4	11.7	0.0	176.4
Flyaway U/C											
Wpn Sys Proc U/C											

**DESCRIPTION:** This budget line supports visual information (VI) processes for all MACOMs and HQDA Field Operating Agencies (FOAs). Department of Defense (DOD)/Army authorized VI activities provide audio-visually-based products and services to support Armywide training and readiness, force development, mobilization, health, safety, documentation of diagnostics for medical, historical, and professional information. VI support includes imagery for installation power projection platforms, video productions (especially for Military Occupation Skill (MOS) training and readiness safety and intelligence), electronic imaging, and photography (including DA official photos). VI equipment acquired with this budget line provides commanders with video, photography, electronic imaging, audio, and other computer generated media which can be integrated to convey real time, two-way information throughout the chain of command.

All equipment has been approved for purchase through the Requirements process and included in the Visual Information Systems Program (VISIP). The VISIP Program is the only means for commanders to procure, replace or augment their VI investment systems and equipment. The equipment in the VISIP has been reviewed and prioritized, both by MACOMs, and Headquarters, Department of Army, Director, Information Systems for Command, Control, Communications and Computers (DISC4). These funds are in support of the Army Plan SEC VII, Para J3b(4), "Obtain a family of information systems to meet the needs of all disciplines ... developed in the context of approved information models and architecture." Funds will purchase equipment to support the transition to electronic imaging (away from hazardous chemical processes) and replace equipment past its life cycle for commanders at each post, camp and station, plus HQDA, Office of the Joint Chiefs of Staff, Office of the Secretary of Defense, the Pentagon, other government agencies in the National Capital Region, as well as the U.S. Military Academy, National Defense University CAPSTONE course, Training and Doctrine Command (TRADOC) schools, and the National Guard and Army Reserves training.

**JUSTIFICATION:** FY 99 funds provide VI equipment for Army elements to directly support the warfighter. The equipment to be purchased is listed in the associated FY VISIP acquisition sequence. Funds will acquire replacement VI investment equipment/systems to produce training materials and other VI products to support the warfighter. Existing equipment is obsolete, requiring excessive maintenance dollars and long unnecessary "throughput" times.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: ITEMS LESS THAN \$2.0M (AV) (BK5289)		Weapon System Type:		Date: February 1998		
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99		
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
Procurement actions consisting of one or more items of Visual Information Equipment. Individual items are listed in the Visual Information Systems Program (VISP) for year indicated. The Army maintains a priority listing.	A	4102	VAR	VAR	2096	VAR	VAR	2547	VAR	VAR
	SOUTHCOM VTC	275	VAR	VAR						
TOTAL		4377			2096			2547		4597

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:		P-1 Line Item Nomenclature: ITEMS LESS THAN \$2.0M (AV) (BK5289)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Procurement actions consisting of one or more items of Visual Information Equipment. Individual items are listed in the Visual Information Systems Program (VISP) for year indicated. The Army maintains a priority listing.										
FY 96	VAR*	C/FP	T-ASA, McClellan AFB		VAR*	VAR	VAR	YES	NO	
FY 97	VAR*	C/FP	T-ASA, McClellan AFB		VAR*	VAR	VAR	YES	NO	
FY 98	VAR*	C/FP	T-ASA, McClellan AFB		VAR*	VAR	VAR	YES	NO	
FY 99	VAR*	C/FP	T-ASA, McClellan AFB		VAR*	VAR	VAR	YES	NO	
SOUTHCOM FY 96	SRA	C/FP	ESCI / ICDX	VAR	VAR	VAR	VAR	YES	NO	

REMARKS: \*The various items of Visual Information (VI) Equipment are listed in the Visual Information System Program (VISP) for the year indicated. Because some equipment items are grouped into a bulk buy contract, the number of contracts and the number of items do not correspond.  
ESCI / ICDX - Electronics Systems Center/ICDX, Hanscom AFB, MA  
SRA - Systems Research Applications International, Arlington, VA

Exhibit P-40, Budget Item Justification Sheet											Date:
Appropriation / Budget Activity/Serial No:											February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment											P-1 Item Nomenclature:
Program Elements for Code B Items:											CALIBRATION SETS EQUIPMENT (BZ5289)
Code:											Other Related Program Elements:
A											
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty											
Gross Cost	104.0	9.6	10.9	11.0	0.0	0.0	0.0	0.0	0.0	0.0	135.6
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc (P-1)	104.0	9.6	10.9	11.0	0.0	0.0	0.0	0.0	0.0	0.0	135.6
Initial Spares											
Total Proc Cost	104.0	9.6	10.9	11.0	0.0	0.0	0.0	0.0	0.0	0.0	135.6
Flyaway U/C											
Wpn Sys Proc U/C											

**DESCRIPTION:** Calibration Sets Equipment comprises calibration standards (hardware), accessories, and repair equipment required to perform the Army-wide test, measurement, and diagnostic equipment (TMDE) calibration and repair mission. This equipment provides for accuracy verification of TMDE by maintaining legal traceability to standards established and maintained by the U.S. National Institute of Standards and Technology. The AN/GSM-286 and AN/GSM-287 Calibration Sets and the Reference Calibration Sets are an integral part of the Army calibration system and are used by direct support/general support maintenance units worldwide. This program supports the TMDE required to assure the operability, accuracy, and effectiveness of the Army's weapon systems.

**JUSTIFICATION:** The Calibration Sets Equipment funding provides for replacement of obsolete and worn-out calibration standards and for procurement of state-of-the-art equipment required to support new and technologically advanced weapon systems such as the Multiple Launch Rocket System, Apache, Bradley Fighting Vehicle, and Patriot. The calibration equipment is required to ensure the Army's weapon systems are maintained in the proper state of readiness.

**NOTE:** This item is funded in OPA3 beginning in FY 1998.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: CALIBRATION SETS EQUIPMENT (BZ5269)		Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99	
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each
Hardware:									
Pneumatic Pressure Standard	A	711	194	4					
Scope/Meter (50Mhz)	A	258	200	1					
Gage Block Comparator	A	205	1	205					
Amplifier (Model 5725A)	A	1621	172	9	196	20	10		
Signal Generator Workstation	A	2741	97	28	2600	92	28		
Signal Generator Workstation Aug	A	1247	97	13	1183	92	13		
Holt 250 Exciter	A				395	100	4		
Pressure Calibration System	A				279	6	47		
100" Mercury Manometer	A				298	1	298		
AC Volt Calibrator	A				381	19	20		
Extremity Dosimetry System	A				382	1	382		
Wattmeter RF Amplifier	A				1849	55	34		
Acquisitions Less than \$200,000	A	2160			1416				
Government Engineering/Support		1850			1850				
Fielding (New Equipment Training)		155			155				
<b>TOTAL</b>		<b>10948</b>			<b>10984</b>				

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:		P-1 Line Item Nomenclature:			
WBS Cost Elements: Fiscal Years				Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000
Pneumatic Pressure Standard FY 96				C/FP	MICOM	Dec-95	Sep-96	194	4
Scope/Meter (50Mhz) FY 96				C/FP	MICOM	Mar-96	Dec-96	200	1
Gage Block Comparator FY 96				C/FP	MICOM	Mar-96	Sep-96	1	205
Amplifier (Model 5725A) FY 96				SS/FP	MICOM	Feb-96	Jun-96	172	9
FY 97				SS/Option	MICOM	Nov-96	Apr-97	20	10
Signal Generator Workstation FY 96				MIPR	Air Force	Jan-96	Apr-96	97	28
FY 97				MIPR	Air Force	Jan-97	Mar-97	92	28
Signal Generator Workstation Augmentation FY 96				SS/FP	MICOM	Feb-96	Apr-96	97	13
FY 97				SS/Option	MICOM	Dec-96	Mar-97	92	13
Holt 250 Exciter FY 97				SS/FP	MICOM	Feb-97	May-97	100	4
Pressure Calibration System FY 97				C/FP	MICOM	Jun-97	May-98	6	47
REMARKS: This item is funded in OPA3 beginning in FY 1998. The Calibration Sets Equipment acquisitions are numerous; therefore, only acquisitions totaling \$200,000 or more are identified above.									

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:		P-1 Line Item Nomenclature:			
WBS Cost Elements: Fiscal Years				Contractor and Location		Contract Method and Type		CALIBRATION SETS EQUIPMENT (BZ5269)	
100" Mercury Manometer FY 97				Schwein Engr, Pomona, CA		C/FP		MICOM	
AC Volt Calibrator FY 97				Fluke, Everett, WA		C/FP		MICOM	
Extremity Dosimetry System FY 97				Bicron Tech, Solon, OH		C/FP		MICOM	
Wattmeter RF Amplifier FY 97				Antenna Research, Beltsville, MD		C/FP		MICOM	
FY 97				Antenna Research, Beltsville, MD		C/Option		MICOM	









Exhibit P-40, Budget Item Justification Sheet											Date:
Appropriation / Budget Activity/Serial No:											February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment											P-1 Item Nomenclature:
Program Elements for Code B Items:											INTEGRATED FAMILY OF TEST EQUIPMENT (IFTE) (KA4000)
Code:											Other Related Program Elements:
A											
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty											
Gross Cost	290.0	53.1	41.3	21.7	0.0	0.0	0.0	0.0	0.0	0.0	406.1
Less PY Adv Proc											
Plus CY Adv Proc											
Net Proc (P-1)	290.0	53.1	41.3	21.7	0.0	0.0	0.0	0.0	0.0	0.0	406.1
Initial Spares											
Total Proc Cost	290.0	53.1	41.3	21.7	0.0	0.0	0.0	0.0	0.0	0.0	406.1
Flyaway U/C											
Wpn Sys Proc U/C											

DESCRIPTION: The Integrated Family of Test Equipment (IFTE) is the Army's program to provide automatic test equipment capable of supporting multiple weapon systems. The IFTE systems provide electronic fault isolation, test, and repair capabilities at all levels of maintenance, and do it more cost effectively than system-specific testers. The IFTE family consists of three systems: The Base Shop Test Facility for direct and general support, the Contact Test Set (CTS) and follow-on CTS (Soldier Portable On-System Repair Tool) for organizational support, and the Electro-Optics Test Facility for electro-optical support. The following weapon systems depend in whole or in part upon IFTE for maintenance support: Abrams, Avenger, Kiowa Warrior, Longbow Apache, Multiple Launch Rocket System, Paladin, Sentinel, Joint Tactical Unmanned Aerial Vehicle, Army Tactical Missile System, Enhanced Position Location Reporting System, Blackhawk and Chinook helicopters, and the Army's entire fleet of diesel engine powered wheeled and tracked vehicles.

JUSTIFICATION: The IFTE has been designated the Army's standard family of automatic test equipment (one of two Department of Defense standard families), and its use by weapon system developers is mandated by the Army Acquisition Executive. The capability of IFTE to support many different weapon systems at all maintenance levels generates substantial long-term operations and support cost savings by eliminating the need for more costly system-specific testers and by enabling retirement of the aging and increasingly unsupportable testers currently in the field. The IFTE provides the capability to support existing weapon systems as well as the even more electronics-intensive systems planned for future fielding.

NOTE: This item is funded in OPA3 beginning in FY 1998.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: INTEGRATED FAMILY OF TEST EQUIPMENT (IFTE) (KA4000)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
BASE SHOP TEST FACILITY*													
Hardware	A	15983	8	1998	12120	7	1731						
Other		19528			3294								
SUBTOTAL		35511			15414								
CONTACT TEST SET													
Hardware	A	1047	80	13	3415	517	7						
Other		906			993								
SUBTOTAL		1953			4408								
ELECTRO-OPTICS EQUIPMENT*													
Hardware	A	3400	2	1700	1700	1	1700						
Other		459			129								
SUBTOTAL		3859			1829								
TOTAL		41323			21651								

\* P-1 quantities have not been updated to reflect the latest information.

\* P-1 quantities have not been updated to reflect the latest information.

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 1998
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												P-1 Item Nomenclature:
Program Elements for Code B Items:												BASE SHOP TEST FACILITY (K18400)
Other Related Program Elements:												
Code: A												
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty	65	14	6	7							92	
Gross Cost	214.2	40.8	35.5	15.4	0.0	0.0	0.0	0.0	0.0	0.0	306.0	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	214.2	40.8	35.5	15.4	0.0	0.0	0.0	0.0	0.0	0.0	306.0	
Initial Spares												
Total Proc Cost	214.2	40.8	35.5	15.4	0.0	0.0	0.0	0.0	0.0	0.0	306.0	
Flyaway U/C												
Wpn Sys Proc U/C												

**DESCRIPTION:** The Base Shop Test Facility (BSTF) satisfies the Army's requirement for general purpose, automatic electronic testing at the direct and general support (DS/GS) levels of maintenance. It automatically identifies faults in electronic circuitry and enables immediate repair in the field through circuit card screening and replacement. The BSTF is fielded to DS/GS companies in division main support battalions, corps and non-divisional DS/GS maintenance companies, and aviation maintenance companies. The BSTF in the field is self-contained, consisting of the tester and associated test program sets mounted in two S-280 shelters, on two five-ton trucks, powered by two 60kW generators. The capabilities of this reconfigurable automatic test equipment can be expanded with minimal development to meet new test requirements. The following weapon systems are supported in whole or in part by the BSTF and its commercial equivalent which is used for factory and depot level support: Avenger, Kiowa Warrior, Multiple Launch Rocket System, Paladin, TOW, and Dragon.

**JUSTIFICATION:** The BSTF is an Army standard general-purpose tester and is required by Army Acquisition Executive policy to be used in support of weapon systems currently being developed. The BSTF is also facilitating the retirement of older, less reliable testers whose operating and support costs are becoming prohibitive. It will assume the workloads of and replace the Land Combat Support System, the Electronic Quality Assurance Test Equipment, and the Test Support System with substantial annual operations and support cost savings.

**NOTE:** This item is funded in OPA3 beginning in FY 1998.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: BASE SHOP TEST FACILITY (K18400)		Weapon System Type:		Date: February 1998		
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99		
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
A		15983	8	1998	12120	7	1731			
Hardware*		1045			926					
Government Furnished Equipment		2473								
Test Program Sets		941								
Support Equipment		4006								
Engineering Changes/Retrofit Kits		30			31					
Quality Verification Testing		1926								
Interim Contractor Support		943			300					
Depot Support		339			100					
Fielding		980			620					
Production Engineering		1009			400					
Software Engineering/Support		359			175					
Configuration Management		180			155					
Quality Assurance		2709			474					
Logistics Products/Support		2588			113					
Contractual Engineering/Technical Services										
TOTAL		35511			15414					

\* P-1 quantity for FY 1996 has not been updated  
updated to reflect the latest information.

\* P-1 quantity for FY 1996 has not been updated updated to reflect the latest information.

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature: BASE SHOP TEST FACILITY (K18400)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Base Shop Test Facility										
FY 96	Northrop Grumman, Bethpage, NY	SS/FP	MICOM	Apr-96	Mar-98	7	1998			
FY 96	Northrop Grumman, Bethpage, NY	SS/Option	MICOM	Jun-96	Oct-98	1	1998			
FY 97	Northrop Grumman, Bethpage, NY	SS/Option	MICOM	Nov-96	Nov-98	6	1731			
FY 97	Northrop Grumman, Bethpage, NY	SS/Option	MICOM	Feb-97	May-99	1	1731			
<b>REMARKS:</b> This item is funded in OPA3 beginning in FY 1998. Unit prices fluctuate because of variances in the total quantities procured each year. Total quantities procured include purchases by other customers which are not reflected above. Configuration change in FY 1997 to remove radio frequency test components reduced the unit price for undelivered units from FY 1996 and FY 1997 contract awards and for future years' production.										







Exhibit P-40, Budget Item Justification Sheet											Date:	February 1998
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:									CONTACT TEST SET (K51600)	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												
Program Elements for Code B Items:		Code:		Other Related Program Elements:								
		A										
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty	2478	595	80	517								3670
Gross Cost	75.8	12.2	2.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	94.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	75.8	12.2	2.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	94.4
Initial Spares												
Total Proc Cost	75.8	12.2	2.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	94.4
Flyaway U/C												
Wpn Sys Proc U/C												

**DESCRIPTION:** The Contact Test Set (CTS), and its follow-on CTS (Soldier Portable On-System Repair Tool) (SPORT), are lightweight, ruggedized portable on-system testers. They are used at all levels of maintenance to automatically diagnose weapon system operations, both electronic and automotive, and identify faulty components for immediate replacement. Because they are portable automatic testers with all the inherent computer capabilities and are used by many different maintenance specialties, the CTS and CTS(SPORT) are the Army's primary platforms for paperless interactive and electronic technical manuals and for downloading mission-critical software into weapon system on-board computer processors. The CTS is in wide use throughout the Army's ground combat and combat service support vehicle fleets as well as in the Army Aviation fleet of aircraft.

**JUSTIFICATION:** The CTS and CTS(SPORT) are the Army's standard on-system testers and are essential maintenance tools in the support plans for the Army's ground vehicle and aviation fleets.

**NOTE:** This item is funded in OPA3 beginning in FY 1998.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: CONTACT TEST SET (K51600)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
A		1047	80	13	3415	517	7						
Hardware		57			517								
Accessories		398			386								
Production Engineering		287			80								
Software Engineering/Support		164			10								
Logistics Products/Support													
Fielding													
TOTAL		1953			4408								

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 1998	
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			Weapon System Type:			P-1 Line Item Nomenclature: CONTACT TEST SET (K51600)						
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Contact Test Set FY 96 FY 97		Miltop Corp, Hope Hull, AL Miltop Corp, Hope Hull, AL		C/FP C/Option	MICOM MICOM	Jun-96 Dec-96	Jan-98 Mar-98	80 517	13 7			
<b>REMARKS:</b> This item is funded in OPA3 beginning in FY 1998. Unit cost for FY 1996 includes "first article" costs. Date of first delivery on the FY 1996 award was delayed by a protest of the contract award and by technical problems encountered in testing. Problems have been resolved, and no further delays are expected.												

## February 1998

## Contact Test Set

Item No. 1 Page 11 of 15

Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												ELECTRO-OPTIC EQUIPMENT (KA4100)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code:												A	
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog	
Proc Qty													
Gross Cost	0.0	0.0	3.9	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	3.9	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	
Initial Spares													
Total Proc Cost	0.0	0.0	3.9	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	
Flyaway U/C													
Wpn Sys Proc U/C													

**DESCRIPTION:** The Integrated Family of Test Equipment (IFTE) Electro-Optics Test Facility (EOTF) will satisfy test and diagnostic requirements for forward-looking infrared systems, thermal imaging devices, laser designators/range finders, television cameras and display systems, direct view optics systems, and trackers. The EOTF capitalizes on Army and Department of Defense (DoD) investments by integrating components from the IFTE Base Shop Test Facility and the Navy's standard electro-optics (EO) tester within a commercial open architecture for electronics. The IFTE EO program is in concert with Army and DoD policies on general-purpose test equipment. This equipment will support the Kiowa Warrior, Longbow Apache, and Improved Target Acquisition System initially and will be capable of replacing aging EO test equipment such as the Electronic Equipment Test Facility currently supporting other Army systems in the field when it becomes cost effective to do so.

**JUSTIFICATION:** The IFTE EOTF is the Army standard off-system EO automatic tester and is capable of supporting multiple weapon systems. It will provide significant operations and support cost savings over use of system-specific testers.

**NOTE:** This item is funded in OPA3 beginning in FY 1998.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: ELECTRO-OPTIC EQUIPMENT (KA4100)		Weapon System Type:		Date: February 1998	
ID	CD	FY 96		FY 97		FY 98		FY 99	
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each
A	Hardware*	3400	2	1700	1700	1	1700		
	Production Engineering	357			129				
	Quality Assurance	75							
	Contractual Engineering/Technical Services	27							
TOTAL		3859			1829				
* P-1 quantity has not been updated to reflect the latest information.									

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1998
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon System Type:		P-1 Line Item Nomenclature: ELECTRO-OPTIC EQUIPMENT (KA4100)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Electro-Optics Test Facility FY 96 FY 97	Northrop Grumman, Bethpage, NY Northrop Grumman, Bethpage, NY	SS/Option SS/Option	MICOM MICOM	Mar-97 Mar-97	Jun-98 Aug-98	2 1	1700 1700			
REMARKS: This item is funded in OPA3 beginning in FY 1998.										





Exhibit P-40, Budget Item Justification Sheet												Date:	February 1998
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												TEST EQUIPMENT MODERNIZATION (TEMOD) (BZ5270)	
Program Elements for Code B Items:												Other Related Program Elements:	
Code:												A	
Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog		
Proc Qty													
Gross Cost	250.3	11.1	9.2	8.2	0.0	0.0	0.0	0.0	0.0	0.0	278.8		
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	250.3	11.1	9.2	8.2	0.0	0.0	0.0	0.0	0.0	0.0	278.8		
Initial Spares													
Total Proc Cost	250.3	11.1	9.2	8.2	0.0	0.0	0.0	0.0	0.0	0.0	278.8		
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION: The objectives of the Test Equipment Modernization (TEMOD) program are to improve the materiel readiness of Army weapon systems; reduce test, measurement, and diagnostic equipment (TMDE) proliferation and obsolescence; and reduce TMDE support costs. These objectives are accomplished through acquisition of state-of-the-art test equipment to provide new measurement capabilities and to replace obsolete items in the existing inventory of general purpose test equipment at the direct and general support levels. The TEMOD program supports a wide variety of communications and electronics systems, and purchases test equipment that is essential to continued support of the Abrams tank, Bradley Fighting Vehicle, Apache helicopter, Patriot, Single-Channel Ground and Airborne Radio System, and other major weapons and support systems. The TEMOD procurements are primarily commercial items which have a significant impact on the readiness, power projection, safety, and training operations of active Army, Army Reserve, and National Guard units.

JUSTIFICATION: The TEMOD program procures general purpose test equipment to support Army weapons and support systems across all commodities. It has produced significant savings in TMDE acquisitions through centralized, economical procurements. The TEMOD program also reduces the Army's operating and support costs by minimizing proliferation of TMDE makes and models and by replacing obsolete, unsupportable equipment.

NOTE: This item is funded in OPA3 beginning in FY 1998.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				P-1 Line Item Nomenclature: TEST EQUIPMENT MODERNIZATION (ITEMOD) (BZ5270)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99					
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
Hardware:													
AN/USM-459B	A	213	180	1									
AN/GTM-12	A	2920	485	6									
TS-4463(P)	A	4284	138	31	3812	120	32						
SG-1207A	A				2018	350	6						
Maintenance/Calibration Accessories		83			9								
Publications/Technical Data		201			352								
Government Engineering/Support		1234			1551								
Technical Assistance Services		33			108								
Interim Contractor Support					150								
Fielding (Total Package Fielding)		125			90								
Fielding (New Equipment Training)		80			60								
TOTAL		9173			8150								

# Exhibit P-5a, Budget Procurement History and Planning

Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				Weapon System Type:		P-1 Line Item Nomenclature: TEST EQUIPMENT MODERNIZATION (TEMOD) (B25270)					Date: February 1998										
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type		Location of PCO		Award Date		Date of First Delivery		QTY Each		Unit Cost \$000		Specs Avail Now?		Date Revisn Avail		RFP Issue Date	
AN/USM-459B FY 96		Hewlett Packard, Santa Clara, CA		C/Option		MICOM		Feb-96		Apr-97		180		1							
AN/GTM-12 FY 96		ABC Digital Elect, Hillsdale, NJ		C/Option		MICOM		Jan-96		Sep-97		485		6							
TS-4463(JP FY 96		Druck, Inc., New Fairfield, CT		SS/Option		MICOM		Jan-96		Jun-97		138		31							
FY 97		Druck, Inc., New Fairfield, CT		SS/Option		MICOM		Nov-96		Jan-98		120		32							
SG-1207A FY 97		Wayne Kerr, Woburn, MA		C/FP		MICOM		Mar-97		Nov-98		350		6							

REMARKS: This item is funded in OPA3 beginning in FY 1998.





Exhibit P-40, Budget Item Justification Sheet											Date:	February 1998
Appropriation / Budget Activity/Serial No:			P-1 Item Nomenclature:								PRODUCTION BASE SUPPORT (C-E) (BF5400)	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment												
Program Elements for Code B Items:			Other Related Program Elements:									
			Code:									
	Prior Years	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	To Complete	Total Prog
Proc Qty												
Gross Cost	160.5	13.7	0.9	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.0	178.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	160.5	13.7	0.9	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.0	178.2
Initial Spares												
Total Proc Cost	160.5	13.7	0.9	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.0	178.2
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This program provides funding to establish, modernize, expand or replace Army-owned industrial facilities used in production and production testing of communication and electronic materiel and above routine maintenance of government-owned equipment used in the manufacture of common modules. By consolidating industrial operations it provided a working environment with improved health and safety factors.

JUSTIFICATION: FY99 funding is required for replacement of equipment and instrumentation used in production testing at Electronic Proving Ground (EPG).

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		P-1 Line Item Nomenclature: PRODUCTION BASE SUPPORT (C-E) (BF5400)				Weapon System Type:		Date: February 1998	
OPA Cost Elements		FY 96		FY 97		FY 98		FY 99			
ID	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000
09X5065 PSR, Electric Proving Ground Replacement/initial purchase of equip and instrumentation used for production testing.											
29X9281 PSR, CECOM Above routine maintenance of Govt-owned equipment used in manufacturing of Common Modules on various systems											
95X0500 Tobyhanna Army Depot Completed establishment of the industrial wastewater pretreatment capabilities which enabled the depot to achieve its HAZMIN goals.											
HAZARDOUS MINIMIZATION PROJECT Office Secretary of Army											
TOTAL		\$0.873			\$0.680			\$0.405			\$0.403